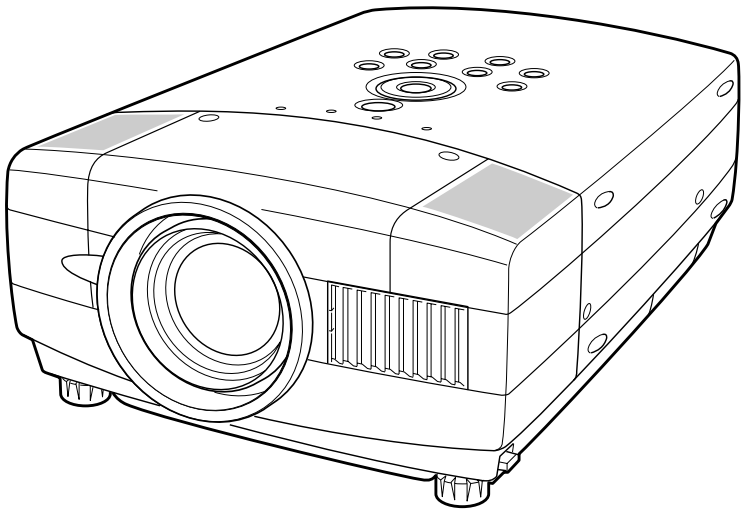
SANYO

Multimedia Projector

MODEL PLC-XT10A
PLC-XT15A



Owner's Manual

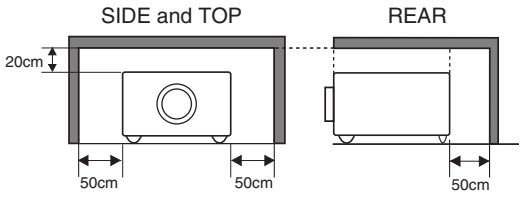
TO THE OWNER

Before operating this projector, read this manual thoroughly and operate the projector properly.
This projector provides many convenient features and functions. Operating the projector properly enables you to manage those features and maintains it in better condition for a considerable time.
Improper operation may result in not only shortening the product-life, but also malfunctions, fire hazard, or other accidents.
If your projector seems to operate improperly, read this manual again, check operations and cable connections and try the solutions in the “TROUBLESHOOTING” section at the end of this booklet. If the problem still persists, contact the sales dealer where you purchased the projector or the service center.

⚠ SAFETY PRECAUTIONS

WARNING : TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

- This projector produces intense light from the projection lens. Do not stare directly into the lens as possible. Eye damage could result. Be especially careful that children do not stare directly into the beam.
- Do not use projectors with whiteboards that produce a very bright glare or 'hot spot'. This seems to happen most on shiny surfaces.
- This projector should be set in the way indicated. If not, it may result in a fire hazard.
- Take appropriate space on the top, sides and rear of the projector cabinet for allowing air circulation and cooling the projector. Minimum distance should be taken. If the projector is to be built into a compartment or similarly enclosed, the minimum distances must be maintained. Do not cover the ventilation slot on the projector. Heat build-up can reduce the service life of your projector, and can also be dangerous.



- Do not put any flammable object or spray can near the projector, hot air is exhausted from the ventilation holes.
- Remote Control Unit, supplied to this projector, emits the laser beam as the laser pointer function from Laser Light Window while pressing LASER button (for 1 minute / LASER POINTER INDICATOR lights red to indicate laser emission). Do not look into Laser Light Window or shine the laser beam on yourself or other people. Eye damage may result.
- If the projector is not to be used for an extended time, unplug the projector from the power outlet.

READ AND KEEP THIS OWNER'S MANUAL FOR LATER USE.

⚡ **CAUTION** **RISK OF ELECTRIC SHOCK DO NOT OPEN** ⚠	
CAUTION : TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE EXCEPT LAMP REPLACEMENT. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.	
⚡ THIS SYMBOL INDICATES THAT DANGEROUS VOLTAGE CONSTITUTING A RISK OF ELECTRIC SHOCK IS PRESENT WITHIN THIS UNIT.	⚠ THIS SYMBOL INDICATES THAT THERE ARE IMPORTANT OPERATING AND MAINTENANCE INSTRUCTIONS IN THE OWNER'S MANUAL WITH THIS UNIT.

SAFETY INSTRUCTIONS

All the safety and operating instructions should be read before the product is operated.

Read all of the instructions given here and retain them for later use. Unplug this projector from AC power supply before cleaning. Do not use liquid or aerosol cleaners. Use a damp cloth for cleaning.

Follow all warnings and instructions marked on the projector.

For added protection to the projector during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet. This will prevent damage due to lightning and power line surges.

Do not expose this unit to rain or use near water... for example, in a wet basement, near a swimming pool, etc...

Do not use attachments not recommended by the manufacturer as they may cause hazards.

Do not place this projector on an unstable cart, stand, or table. The projector may fall, causing serious injury to a child or adult, and serious damage to the projector. Use only with a cart or stand recommended by the manufacturer, or sold with the projector. Wall or shelf mounting should follow the manufacturer's instructions, and should use a mounting kit approved by the manufacturers.

An appliance and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the appliance and cart combination to overturn.



Slots and openings in the back and bottom of the cabinet are provided for ventilation, to insure reliable operation of the equipment and to protect it from overheating.

The openings should never be covered with cloth or other materials, and the bottom opening should not be blocked by placing the projector on a bed, sofa, rug, or other similar surface. This projector should never be placed near or over a radiator or heat register.

This projector should not be placed in a built-in installation such as a book case unless proper ventilation is provided.

Never push objects of any kind into this projector through cabinet slots as they may touch dangerous voltage points or short out parts that could result in a fire or electric shock. Never spill liquid of any kind on the projector.

This projector should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power supplied, consult your authorized dealer or local power company.

Do not overload wall outlets and extension cords as this can result in fire or electric shock. Do not allow anything to rest on the power cord. Do not locate this projector where the cord may be damaged by persons walking on it.

Do not attempt to service this projector yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.

Unplug this projector from wall outlet and refer servicing to qualified service personnel under the following conditions:

a. When the power cord or plug is damaged or frayed.
b. If liquid has been spilled into the projector.
c. If the projector has been exposed to rain or water.
d. If the projector does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions as improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the projector to normal operation.
e. If the projector has been dropped or the cabinet has been damaged.
f. When the projector exhibits a distinct change in performance-this indicates a need for service.

When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer that have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock, or injury to persons.

Upon completion of any service or repairs to this projector, ask the service technician to perform routine safety checks to determine that the projector is in safe operating condition.

Voor de klanten in Nederland



Bij dit product zijn batterijen geleverd.
Wanneer deze leeg zijn, moet u ze niet weggooien maar inleveren als KCA.

COMPLIANCES

Federal Communication Commission Notice

Note : This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures :

– Reorient or relocate the receiving antenna.
– Increase the separation between the equipment and receiver.
– Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
– Consult the dealer or an experienced radio/TV technician for help.

Use of shielded cable is required to comply with class B limits in Subpart B of Part 15 of FCC Rules.

Do not make any changes or modifications to the equipment unless otherwise specified in the instructions. If such changes or modifications should be made, you could be required to stop operation of the equipment.

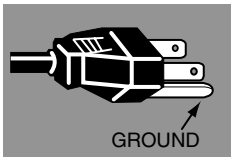
Model Numbers	: PLC-XT10A, PLC-XT15A
Trade Name	: Sanyo
Responsible party	: SANYO FISHER COMPANY
Address	: 21605 Plummer Street, Chatsworth, California 91311
Telephone No.	: (818)998-7322

AC POWER CORD REQUIREMENT

The AC Power Cord supplied with this projector meets the requirement for use in the country you purchased it.

AC Power Cord for the United States and Canada :

AC Power Cord used in the United States and Canada is listed by the Underwriters Laboratories (UL) and certified by the Canadian Standard Association (CSA).
AC Power Cord has a grounding-type AC line plug. This is a safety feature to be sure that the plug will fit into the power outlet. Do not try to defeat this safety feature. Should you be unable to insert the plug into the outlet, contact your electrician.



AC Power Cord for the United Kingdom :

This cord is already fitted with a moulded plug incorporating a fuse, the value of which is indicated on the pin face of the plug. Should the fuse need to be replaced, an ASTA approved BS 1362 fuse must be used of the same rating, marked thus ⍟. If the fuse cover is detachable, never use the plug with the cover omitted. If a replacement fuse cover is required, ensure it is of the same colour as that visible on the pin face of the plug (i.e. red or orange). Fuse covers are available from the Parts Department indicated in your User Instructions.
If the plug supplied is not suitable for your socket outlet, it should be cut off and destroyed.
The end of the flexible cord should be suitably prepared and the correct plug fitted. (See Over)

WARNING : A PLUG WITH BARED FLEXIBLE CORD IS HAZARDOUS IF ENGAGED IN A LIVE SOCKET OUTLET.

The Wires in this mains lead are coloured in accordance with the following code:

Green-and-yellow ····· Earth
Blue ····· Neutral
Brown ····· Live

As the colours of the wires in the mains lead of this apparatus may not correspond with the coloured markings identifying the terminals in your plug proceed as follows:
The wire which is coloured green-and-yellow must be connected to the terminal in the plug which is marked by the letter E or by the safety earth symbol ⏚ or coloured green or green-and-yellow.
The wire which is coloured blue must be connected to the terminal which is marked with the letter N or coloured black.
The wire which is coloured brown must be connected to the terminal which is marked with the letter L or coloured red.

WARNING : THIS APPARATUS MUST BE EARTHED.

THE SOCKET-OUTLET SHOULD BE INSTALLED NEAR THE EQUIPMENT AND EASILY ACCESSIBLE.

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TRADEMARKS

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- Each name of corporations or products in the owner's manual is a trademark or a registered trademark of its respective corporation.

FEATURES AND DESIGN

This Multimedia Projector is designed with the most advanced technology for portability, durability, and ease of use. This projector utilizes built-in multimedia features, a palette of 16.77 million colors, and matrix liquid crystal display (LCD) technology.

◆ Compact Design

This projector is extremely compact in size and weight. It is designed to carry and work anywhere you wish to use.

◆ Compatibility

This projector widely accepts various video and computer input signals including;

- **Computers**
 IBM-compatible or Macintosh computer up to 1280 x 1024 resolution.
- **6 Color Systems**
 NTSC, PAL, SECAM, NTSC 4.43, PAL-M or PAL-N color system can be connected.
- **Component Video**
 Component video signal, such as a DVD player output high definition TV signals including 480i, 480p, 575i, 575p, 720p, 1035i or 1080i, can be connected.
- **S-Video**
 S-Video signal, such as a S-VHS VCR output signal, can be connected.

◆ High Resolution Image

This projector provides 1024 x 768 dots resolution for computer input and 800 horizontal TV lines. Resolution from a computer between XGA (1024 x 768) and SXGA (1280 x 1024) is compressed into 1024 x 768 dots. This projector cannot display image of over 1280 x 1024 dots. When resolution of your computer is over than 1280 x 1024, reset a computer output for lower resolution.

◆ Multi-Scan System

This projector has Multi-Scan System to conform to almost all computer output signals quickly. There is no need for troublesome manual adjustment of frequency and other settings.

◆ Progressive Scan Function

This function converts interlace video signals into progressive scan signals and provide fine picture quality.

◆ One-Touch Auto PC Adjustment

Incoming computer video signals are recognized and the best adjustment is automatically set by Auto PC Adjustment. No complicated setup is necessary and projection is always precise.

◆ Digital Zoom (for Computer)

Digital Zoom function adjusts the image size to approx. 1/4 ~ 49 times of original image size, allowing you to focus on crucial information at a presentation.

◆ Motor-driven Lens Shift

Projection lens can be moved up and down with motor-driven lens shift function. This function makes it easy to provide projected image where you want.
Zoom and focus can be also adjusted with motor-driven operation.

◆ Keystone Correction

Positioning of a projector may result in distorted image being displayed in a trapezoid shape. Keystone Correction solves this problem by digitally altering projection to produce undistorted images.

◆ Power Management

Power Management function is provided to reduce power consumption while a projector is not in use.
This Power Management function operates to turn Projection Lamp off when a projector detects signal interruption and any button is not pressed over 5 minutes. Projection Lamp is automatically turned on again when a projector detects signal or any operation button is pressed.
This projector is shipped with this function ON.

◆ Digital Visual Interface

This projector is equipped with DVI 29-pin terminal for connecting DVI output from a computer.

◆ Laser Pointer Function

Remote Control Unit supplied with this projector includes Laser Pointer function. This function helps you to make a smart presentation on a projected screen.

◆ Wireless Mouse

Remote Control Unit supplied with this projector has Wireless Mouse function for a connected computer. This function enables you to operate both projector and computer with Remote Control Unit only.

◆ Multilanguage Menu Display

Operation menu is displayed in; English, German, French, Italian, Spanish, Portuguese, Dutch, Swedish, Russian, Chinese, Korean or Japanese.

◆ Media Card Imager (Optional)

Optional Media Card Imager is available for this projector. For the Media Card Imager, contact the sales dealer where you purchased this projector.

◆ Wireless Imager (Optional)

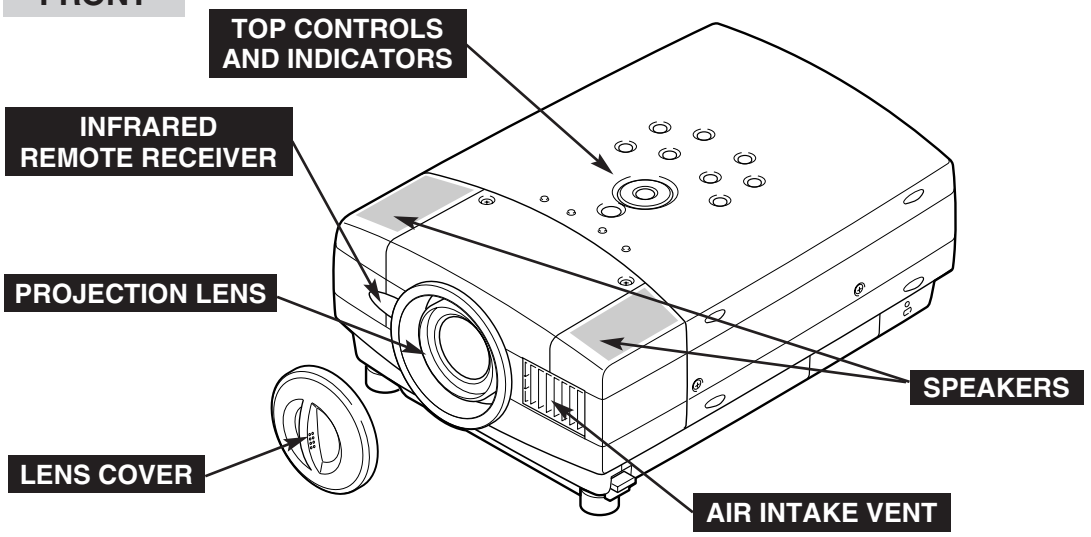
This projector can be operated through Wireless LAN by attaching Wireless imager that is optionally supplied. For the Wireless Imager, contact the sales dealer where you purchased the projector.

◆ PJ-Net Organizer (Optional)

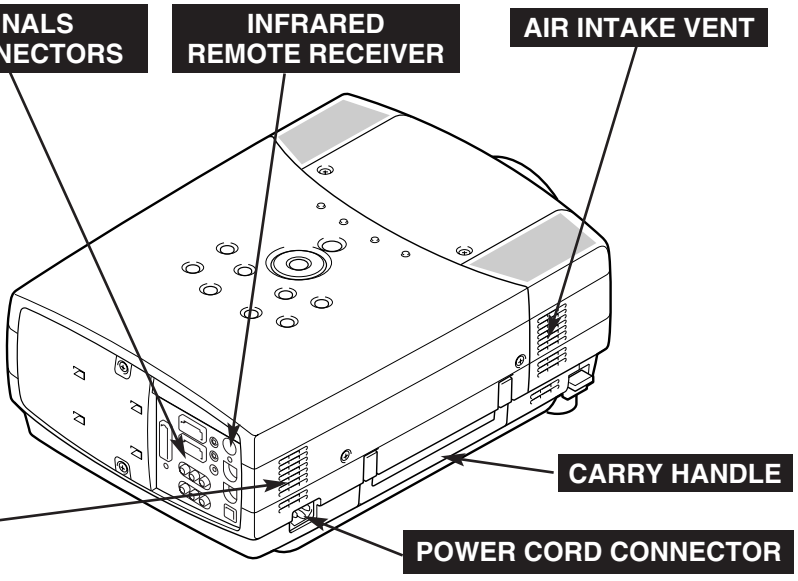
PJ-Net Organizer is an optional product to control and set up a projector via the network cable. By accessing to the connected projector using the web browser on your computer. It can be controlled and set up the projector remotely. Contact the sales dealer where you purchased this projector for optional parts.

NAME OF EACH PART OF PROJECTOR

FRONT



BACK



EXHAUST VENTS

HOT AIR EXHAUSTED !

Air blown from Exhaust Vents is hot. When using or installing projector, following precautions should be taken.

- Do not put any flammable object near this vent.
- Keep side grill at least 3'(1m) away from any object, especially heat-sensitive object.
- Do not touch this area, especially screw and metallic part. This area will become hot while a projector is used.

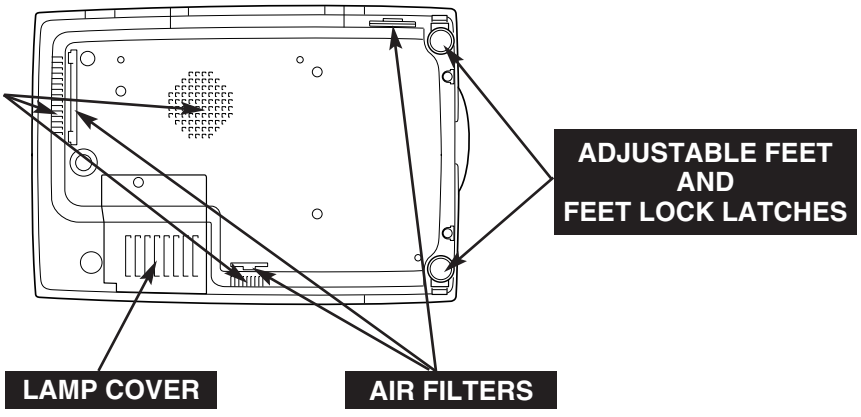
This projector detects internal temperature and automatically controls operating power of Cooling Fans.

BOTTOM

AIR INTAKE VENTS

This projector is equipped with Cooling Fans for protection from overheating. Pay attention to the following to ensure proper ventilation and avoid a possible risk of fire and malfunction.

- Do not cover vent slots.
- Keep side and bottom clear of any object. Obstructions may block cooling air.



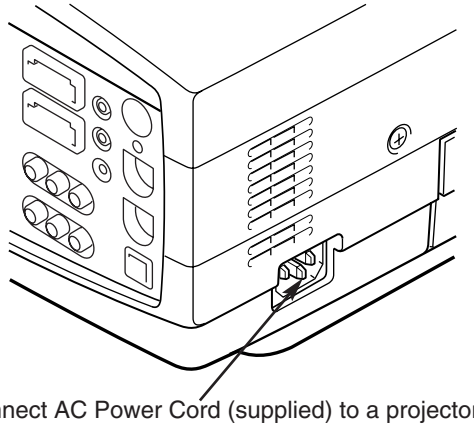
SETTING-UP PROJECTOR

CONNECTING AC POWER CORD

This projector uses nominal input voltages of 100-120 V or 200-240 V AC. This projector automatically selects the correct input voltage. It is designed to work with single-phase power systems having a grounded neutral conductor. To reduce risk of electrical shock, do not plug into any other type of power system.
Consult your authorized dealer or service station if you are not sure of the type of power supply being in use.
Connect a projector with a peripheral equipment before turning a projector on. (Refer to pages 11 ~ 13 for connection.)

CAUTION

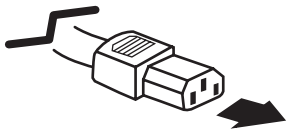
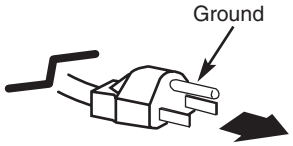
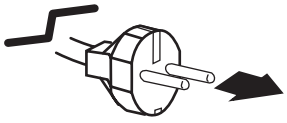
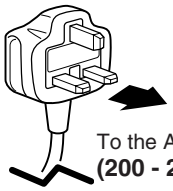
For safety, unplug AC Power Cord when an appliance is not used.
When this projector is connected to the outlet with AC Power Cord, an appliance is in Stand-by Mode and consumes a little electric power.



Connect AC Power Cord (supplied) to a projector. The AC outlet must be near this equipment and must be easily accessible.

NOTE ON THE POWER CORD

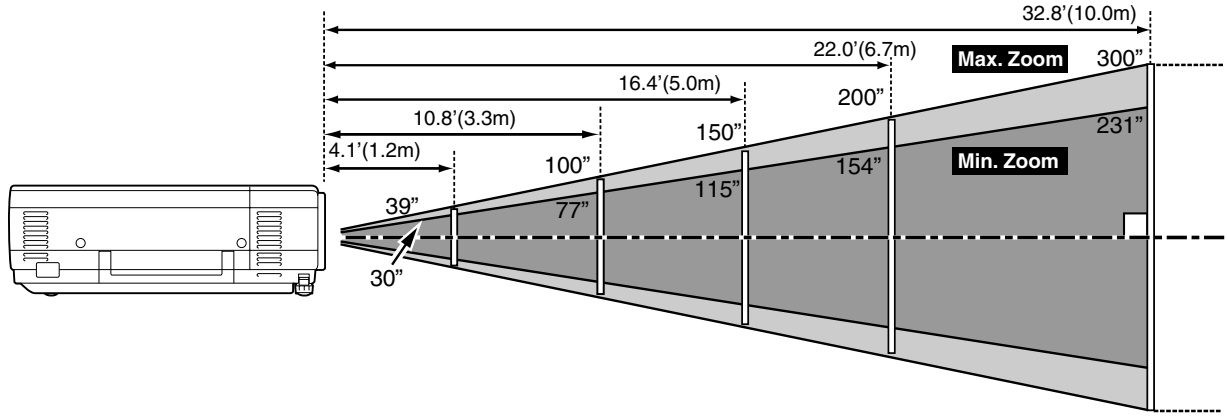
AC Power Cord must meet requirement of the country where you use a projector.
Confirm an AC plug type with the chart below and proper AC Power Cord must be used.
If supplied AC Power Cord does not match your AC outlet, contact your sales dealer.

Projector side	AC Outlet side		
	For the U.S.A. and Canada	**For Continental Europe**	**For the U.K.**
 To POWER CORD CONNECTOR on your projector.	 Ground To the AC Outlet. **(120 V AC)**	 To the AC Outlet. **(200 - 240 V AC)**	 To the AC Outlet. **(200 - 240 V AC)**

POSITIONING PROJECTOR

- This projector is designed to project on a flat projection surface.
- Projector can be focused from 4.1' (1.2m) ~ 32.8' (10.0m).
- Refer to figure below to adjust screen size.

ROOM LIGHT
Brightness in room has a great influence on picture quality. It is recommended to limit ambient lighting in order to provide best image.

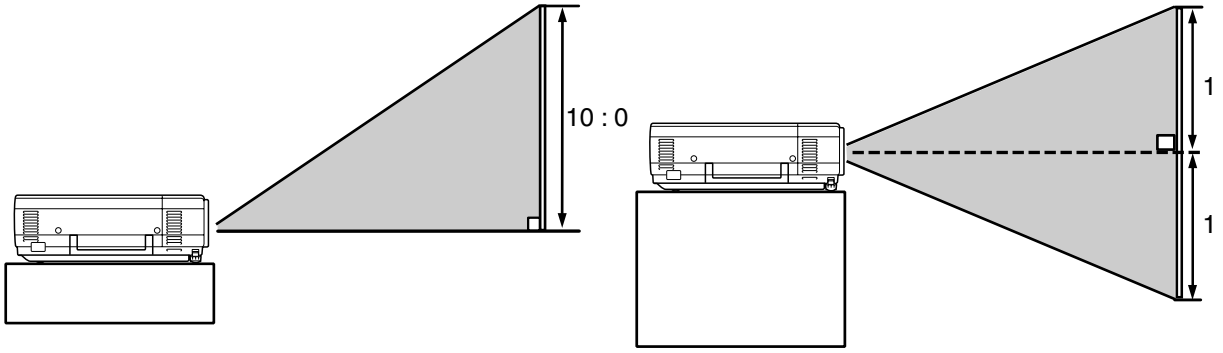


Screen Size	Max. Zoom	39"	100"	150"	200"	250"	300"
	Min. Zoom	30"	77"	115"	154"	192"	231"
Distance		4.1' (1.2m)	10.8' (3.3m)	16.4' (5.0m)	22.0' (6.7m)	27.6' (8.4m)	32.8' (10.0m)

LENS SHIFT ADJUSTMENT

Projection lens can be moved up and down with motor-driven lens shift function. This function makes it easy to provide projected image where you want. U/D ratio can be adjusted 10 : 0 ~ 1 : 1 (refer to figure below.). Refer to P 20 for operation.

Highest (10 : 0) ⟷ **Lowest (1 : 1)**

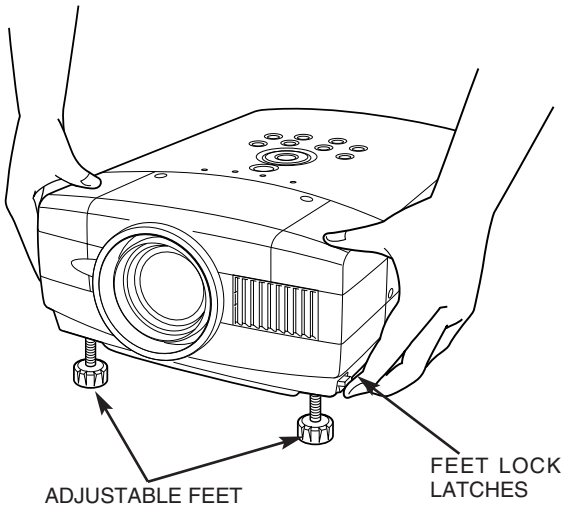


ADJUSTABLE FEET

Picture tilt and projection angle can be adjusted by rotating ADJUSTABLE FEET. Projection angle can be adjusted to 10 degrees.

1. Lift the front of a projector and pull FEET LOCK LATCHES on the both sides of a projector.
2. Release FEET LOCK LATCHES to lock ADJUSTABLE FEET and rotate ADJUSTABLE FEET to fine tune position and tilt.
3. To retract ADJUSTABLE FEET, lift the front of a projector and pull and undo FEET LOCK LATCHES.
 Keystone distortion of a projected image can be adjusted by Menu Operation. (Refer to P20 and 36.)

NOTE :
THIS PROJECTOR SHOULD BE SET IN THE WAY INDICATED. PROJECTION LAMP MAY MALFUNCTION.

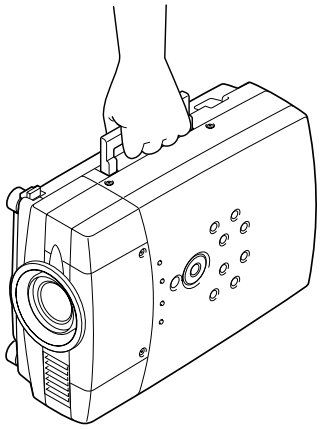


MOVING PROJECTOR

Use Carry Handle when moving a projector.
When moving a projector, replace Lens Cover and retract Adjustable Feet to prevent damage to the lens and cabinet.
When a projector is not in use for an extended period, put it into the case (dust cover) supplied with a projector.

CAUTION

Dust Cover (supplied) is intended for protection from dust and scratches on the surface of a cabinet, and it is not designed to protect an appliance from external forces. Do not transport a projector through a courier or transport services with this cover. The projector can be damaged. When handling a projector, do not drop, bump, subject it to strong forces or put other things on the cabinet.



CAUTION IN CARRYING OR TRANSPORTING THE PROJECTOR

- Do not drop or bump a projector, otherwise damages or malfunctions may result.
- When carrying a projector, use a suitable carrying case.
- Do not transport a projector by using a courier or transport service in an unsuitable transport case. This may cause damage to a projector. To transport a projector through a courier or transport service, consult your dealer for best way.

TERMINALS OF PROJECTOR

This projector has input and output terminals on its back for connecting computers and video equipment. Refer to figures on pages 11 to 13 and connect properly.

COMPUTER INPUT 2 (DIGITAL/ANALOG) Media Card Imager / Wireless Imager TERMINAL

Connect computer output (Digital / Analog DVI-I type), Media Card Imager*, Wireless Imager* or PJ-Net Organizer* to this terminal. (Refer to P12)
*optional accessories

MONITOR OUTPUT TERMINAL

Connect a monitor to this terminal.
This terminal outputs a computer input signal (except Digital signal input on DVI terminal). (Refer to P12.)

COMPUTER INPUT 1 TERMINAL

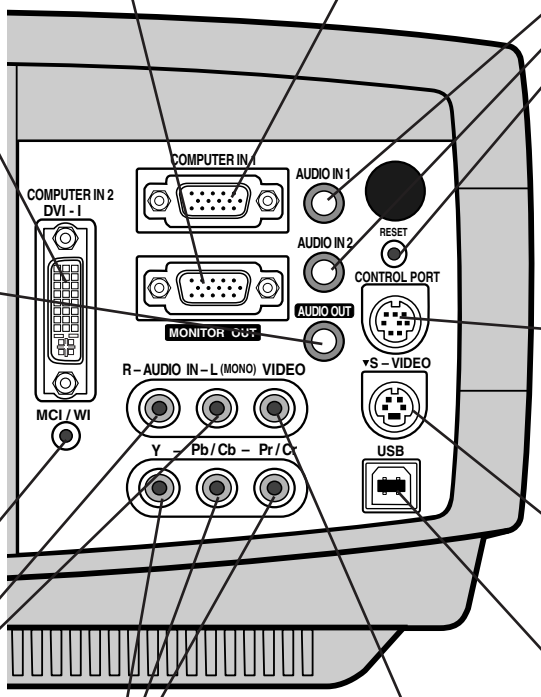
Connect computer output (Analog HDB 15-pin type) or 21-pin Scart (RGB) output from video equipment to this terminal. (Refer to P12, 13.)

COMPUTER AUDIO INPUT (1 and 2) JACKS

Connect an audio output (stereo) from computer to these jacks. (Refer to P12.)

RESET BUTTON

This projector uses a micro processor to control this unit, and occasionally, this micro processor may malfunction and need to be reset. This can be done by pressing RESET button with a pen, which will shut down and restart the unit. Do not use RESET function excessively.



AUDIO OUTPUT JACK

Connect an external audio amplifier to this jack. (Refer to P12, 13.)

✻ Do not press this button. This button is used for our optional accessories.

CONTROL PORT CONNECTOR

When controlling the computer with Remote Control Unit of this projector, connect the mouse port of your personal computer to this connector. (Refer to P12.)

S-VIDEO INPUT JACK

Connect the S-VIDEO output from video equipment to this jack. (Refer to P13.)

AUDIO INPUT JACKS

Connect the audio output from video equipment to these jacks. (Refer to P13.)
- When the audio output is monaural, connect it to L (MONO) jack.

VIDEO INPUT JACKS

Connect the component video output from video equipment to connect the component video outputs to Y, Pb/Cb and Pr/Cr jacks. (Refer to P13.)

VIDEO INPUT JACK

Connect the composite video output from video equipment to connect this jack. (Refer to P13.)

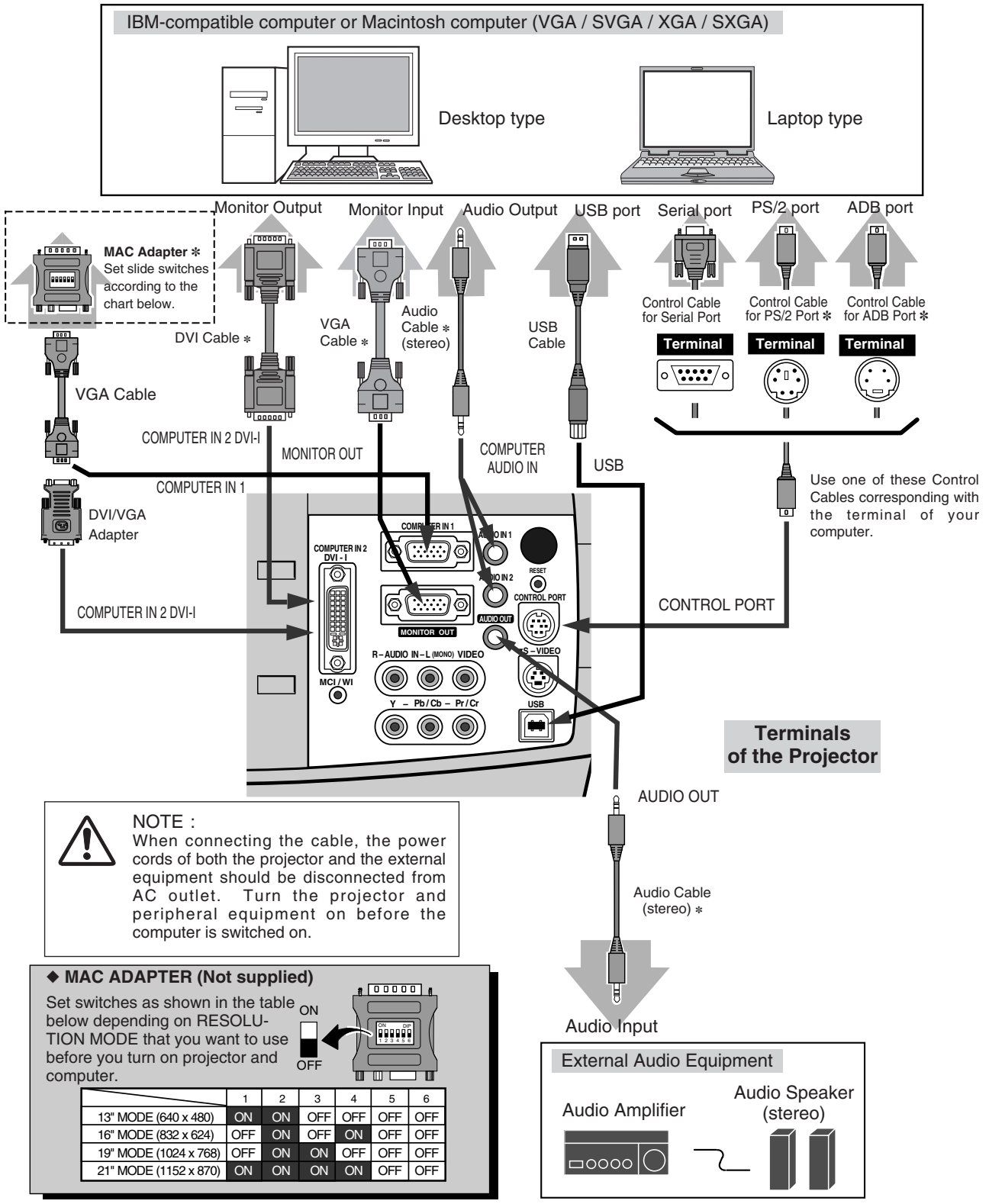
USB CONNECTOR (Series B)

When controlling the computer with Remote Control Unit of this projector, connect USB port of your personal computer to this connector. (Refer to P12.)

CONNECTING TO COMPUTER

Cables used for connection (✻ = Cable or adapter is not supplied with this projector.)

- VGA Cable (HDB 15 pin)
- Control Cable for SERIAL Port
- DVI-Digital Cable (for Single Link T.M.D.S.) ✻
- Control Cable for PS2 Port ✻, or ADB Port ✻
- USB Cable
- MAC Adapter (When connecting to Macintosh computer) ✻
- DVI/VGA Adapter
- Audio Cables {Mini Plug (stereo) x 2} ✻



NOTE :
When connecting the cable, the power cords of both the projector and the external equipment should be disconnected from AC outlet. Turn the projector and peripheral equipment on before the computer is switched on.

◆ MAC ADAPTER (Not supplied)

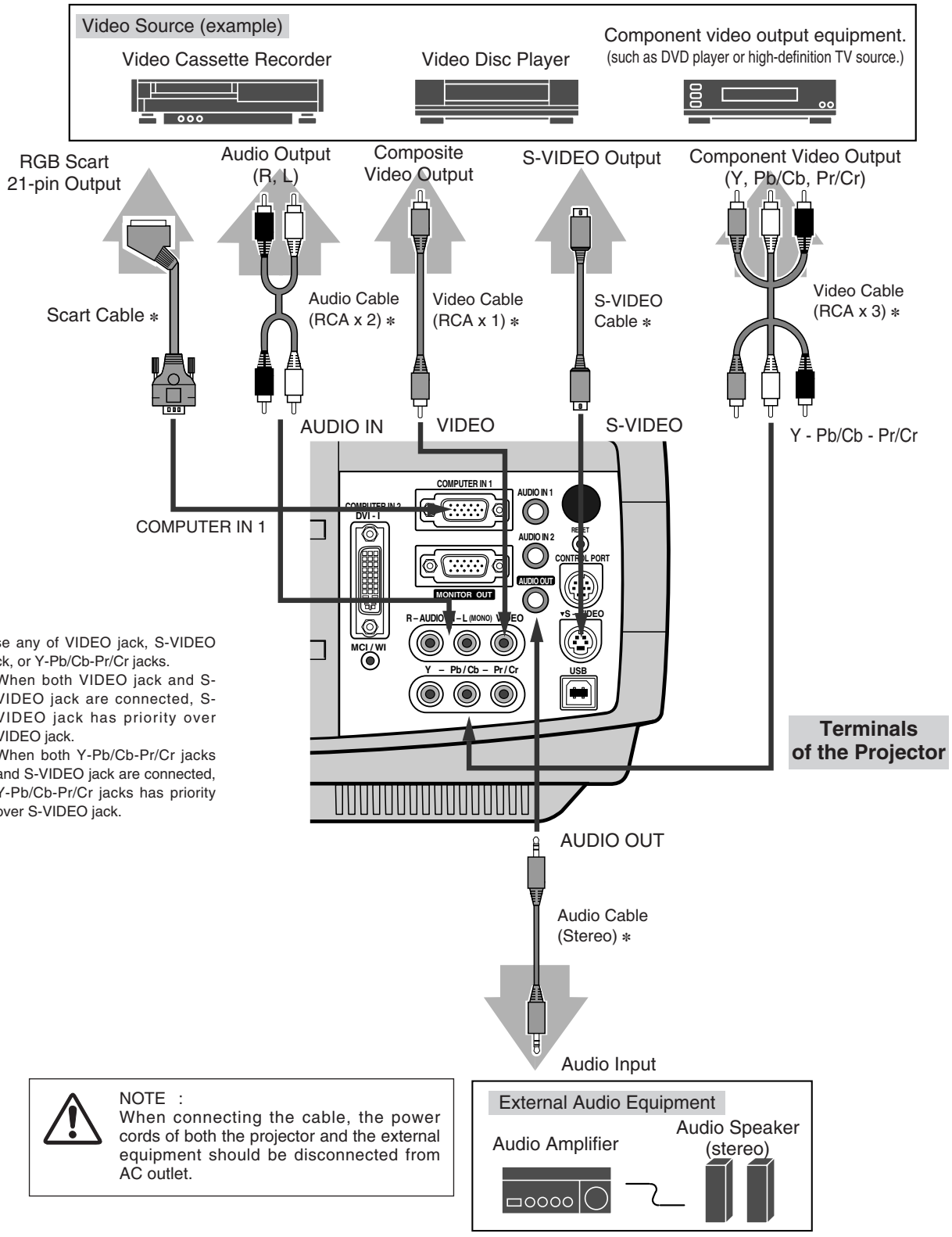
Set switches as shown in the table below depending on RESOLUTION MODE that you want to use before you turn on projector and computer.

	1	2	3	4	5	6
13" MODE (640 x 480)	ON	ON	OFF	OFF	OFF	OFF
16" MODE (832 x 624)	OFF	ON	OFF	ON	OFF	OFF
19" MODE (1024 x 768)	OFF	ON	ON	OFF	OFF	OFF
21" MODE (1152 x 870)	ON	ON	ON	ON	OFF	OFF

CONNECTING TO VIDEO EQUIPMENT

Cables used for connection (∗ = Cable is not supplied with this projector.)

- Video Cable (RCA x 1 or RCA x 3) ∗
- S-VIDEO Cable ∗
- Audio Cable (RCA x 2) ∗
- Audio Cable {Mini Plug (stereo)} ∗
- Scart Cable ∗



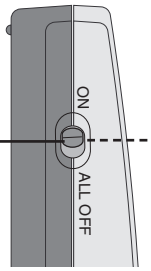
Use any of VIDEO jack, S-VIDEO jack, or Y-Pb/Cb-Pr/Cr jacks.

- When both VIDEO jack and S-VIDEO jack are connected, S-VIDEO jack has priority over VIDEO jack.
- When both Y-Pb/Cb-Pr/Cr jacks and S-VIDEO jack are connected, Y-Pb/Cb-Pr/Cr jacks has priority over S-VIDEO jack.

NOTE :
When connecting the cable, the power cords of both the projector and the external equipment should be disconnected from AC outlet.

OPERATION OF REMOTE CONTROL

Left Side

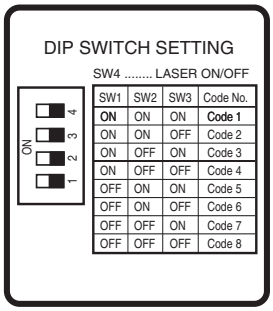


ALL-OFF SWITCH

When using Remote Control Unit, turn this switch to “ON.” And turn it to “ALL OFF” when it is not used.

INSIDE THE BATTERY COMPARTMENT BOX

This remote control provide the DIP switches into the battery compartment box.
Slide the SW4 (LASER ON/OFF switch) to "OFF" position. The laser pointer function is not operated.
Set switches 1-3 as shown in table below depending on Code No. that you want to select remote control code.
(Refer to P37.)



SW1	SW2	SW3	Code No.
ON	ON	ON	Code 1
ON	ON	OFF	Code 2
ON	OFF	ON	Code 3
ON	OFF	OFF	Code 4
OFF	ON	ON	Code 5
OFF	ON	OFF	Code 6
OFF	OFF	ON	Code 7
OFF	OFF	OFF	Code 8

LASER POINTER (Drag ON) INDICATOR

Lights red while laser beam is emitted from Laser Light Window.
Lights green when drag ON position. (P40)

MUTE BUTTON

Used to mute sound. (P21)

DRAG ON/OFF BUTTON

Used to select drag ON/OFF position. (P40)

LEFT CLICK BUTTON

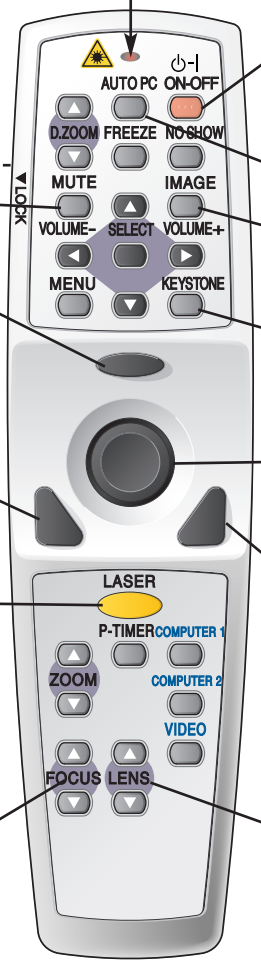
Used as a PC mouse in Wireless Mouse Operation. Press this button and the mouse pointer button to drag a selected screen object. (P40)

LASER BUTTON

Used to operate Laser Pointer Function. Laser beam is emitted while pressing this button within 1 minute.
When using this Laser Pointer for more than 1 minute, release LASER button and press it again.

FOCUS BUTTON

Used to adjust focus. (P20)



POWER ON-OFF BUTTON

Used to turn projector on or off. (P19)

AUTO PC ADJ. BUTTON

Use to operate AUTO PC Adjustment function. (P25)

IMAGE BUTTON

Used to select image level. (P28, 33)

KEYSTONE BUTTON

Used to correct keystone distortion. (P20, 36)

MOUSE POINTER

Used as a PC mouse in Wireless Mouse Operation. (P40)

RIGHT CLICK BUTTON

Used as a PC mouse in Wireless Mouse Operation. (P40)

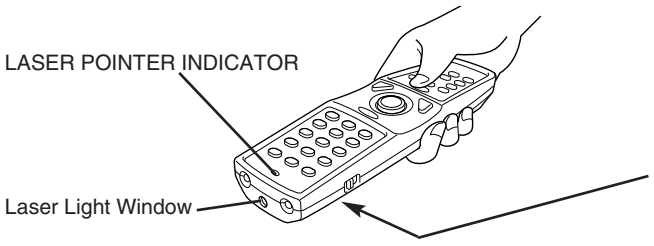
LENS SHIFT BUTTON

Used to select LENS SHIFT function. (P20)

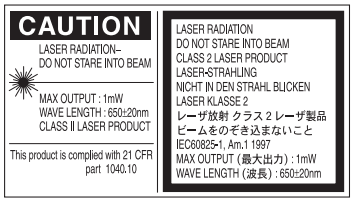
LASER POINTER FUNCTION

This Remote Control Unit emits a laser beam as laser pointer function from Laser Light Window. When LASER button is pressed, laser light goes on. And when LASER button is being pressed for more than 1 minute or LASER button is released, light goes off. LASER POINTER INDICATOR lights RED and Laser is emitted with RED light to indicate laser beam is being emitted.
Laser emitted is a class II laser; therefore, do not look into Laser Light Window or shine laser beam on yourself or other people. Three marks below are caution labels for laser beam.

CAUTION : Use of controls, adjustments or performance of procedures other than those specified herein may result hazardous radiation exposure.



These caution labels are put on remote control.





D.ZOOM BUTTON
Used to select DIGITAL ZOOM +/– mode and resize image. (P30)

SELECT BUTTON
Used to execute item selected, or to expand or compress image in DIGITAL ZOOM +/- mode. (P30)

MENU BUTTON
Used to select MENU operation. (P17, 18)

P-TIMER BUTTON
Used to operate P-TIMER function. (P21)

ZOOM BUTTON
Used to adjust zoom. (P20)



NO SHOW BUTTON
Used to turn picture into black image. (P21)

FREEZE BUTTON
Used to freeze picture. (P21)

POINT (VOLUME +/-) BUTTONS
Used to select an item or adjust value in ON-SCREEN MENU. They are also used to pan image in DIGITAL ZOOM +/- mode. (P30) POINT LEFT/RIGHT buttons are also used as VOLUME +/- buttons. (P21)

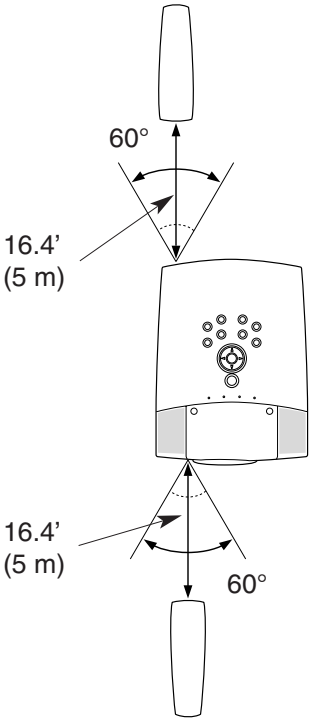
COMPUTER 1 BUTTON
Used to select input source (COMPUTER 1). (P22)

COMPUTER 2 BUTTON
Used to select input source (COMPUTER 2). (P22, 31)

VIDEO BUTTON
Used to select input source (VIDEO). (P31)

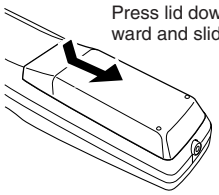
Operating Range

Point Remote Control Unit toward projector (Receiver Window) whenever pressing any button. Maximum operating range for Remote Control Unit is about 16.4' (5m) and 60° in front and rear of a projector.

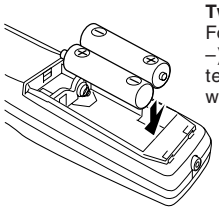


Remote Control Batteries Installation

1 Remove battery compartment lid.

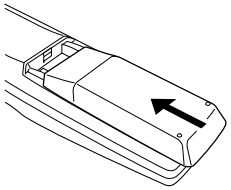


2 Slide batteries into compartment.



Two AA size batteries
For correct polarity (+ and –), be sure battery terminals are in contact with pins in compartment.

3 Replace compartment lid.



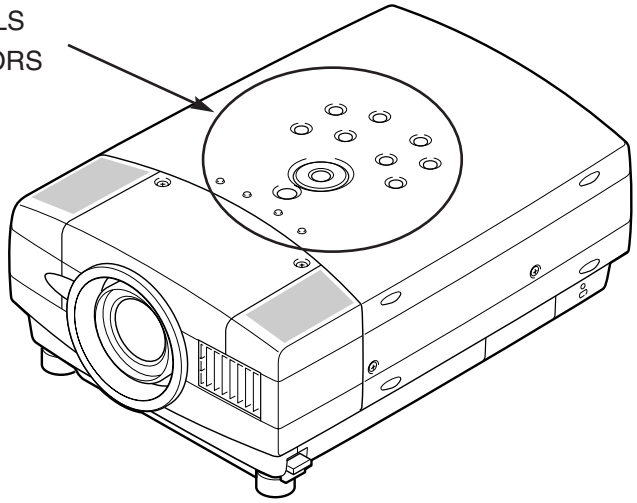
To insure safe operation, please observe following precautions :

- Use (2) AA, UM3 or R06 type alkaline batteries.
- Replace two batteries at same time.
- Do not use a new battery with an used battery.
- Avoid contact with water or liquid.
- Do not expose Remote Control Unit to moisture, or heat.
- Do not drop Remote Control Unit.
- If a battery has leaked on Remote Control Unit, carefully wipe case clean and install new batteries.
- Danger of explosion if battery is incorrectly replaced.
- Dispose of used batteries according to batteries manufacturers instructions and local rules.

TOP CONTROLS AND INDICATORS

This projector has CONTROL BUTTONS (TOP CONTROLS) and INDICATORS on its top.

TOP CONTROLS
AND INDICATORS



LAMP REPLACE INDICATOR
Turns yellow when the life of the projection lamp draws to an end. (P38)

WARNING TEMP. INDICATOR
Flashes red when internal projector temperature is too high. (P41)

READY INDICATOR
Lights green when the projector is ready to be turned on. And it flashes green in Power Management mode. (P37)

LAMP INDICATOR
Becomes dim when the projector is turned on. And it is bright when the projector is in stand-by mode.

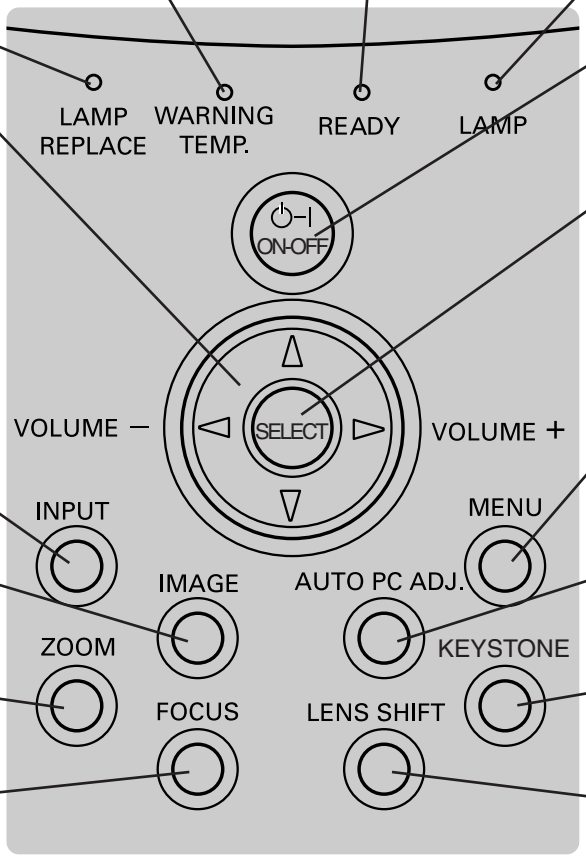
POINT (VOLUME + / –) BUTTONS
Used to select an item or adjust value in ON-SCREEN MENU. They are also used to pan the image in DIGITAL ZOOM +/– mode. (P30)
POINT LEFT/RIGHT buttons are also used as VOLUME +/– buttons. (P21)

INPUT BUTTON
Used to select input source. (P22, 31)

IMAGE BUTTON
Used to select image level. (P28, 33)

ZOOM BUTTON
Used to adjust zoom. (P20)

FOCUS BUTTON
Used to adjust focus. (P20)



POWER ON–OFF BUTTON
Used to turn the projector on or off. (P19)

SELECT BUTTON
Used to execute the item selected. It is also used to expand / compress the image in DIGITAL ZOOM mode. (P30)

MENU BUTTON
Used to open or close MENU operation. (P17, 18)

AUTO PC ADJ. BUTTON
Use to operate AUTO PC Adjustment function. (P25)

KEYSTONE BUTTON
Used to correct keystone distortion. (P20, 36)

LENS SHIFT BUTTON
Used to select LENS SHIFT function. (P20)

OPERATING ON-SCREEN MENU

HOW TO OPERATE ON-SCREEN MENU

You can control and adjust this projector through ON-SCREEN MENU. Refer to the following pages to operate each adjustment on ON-SCREEN MENU.

1 DISPLAY MENU

Press MENU button to display ON-SCREEN MENU.

2 MOVING POINTER

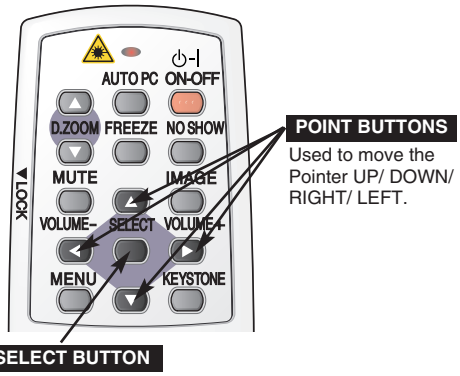
Move the pointer (* see below) or adjust the value of item by pressing POINT button(s) on Top Control or on Remote Control Unit.

* Pointer is the icon on ON-SCREEN MENU to select the item. See the figures on the section "FLOW OF ON-SCREEN MENU OPERATION" below.

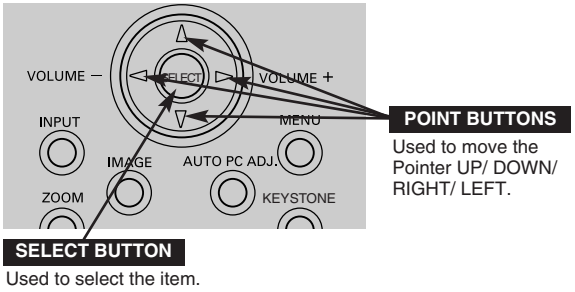
3 SELECT ITEM

Select the item or set selected function by pressing SELECT button.

REMOTE CONTROL UNIT



TOP CONTROL



FLOW OF ON-SCREEN MENU OPERATION

Display ON-SCREEN MENU

1 Press MENU button to display ON-SCREEN MENU (MENU BAR). A red frame is POINTER.

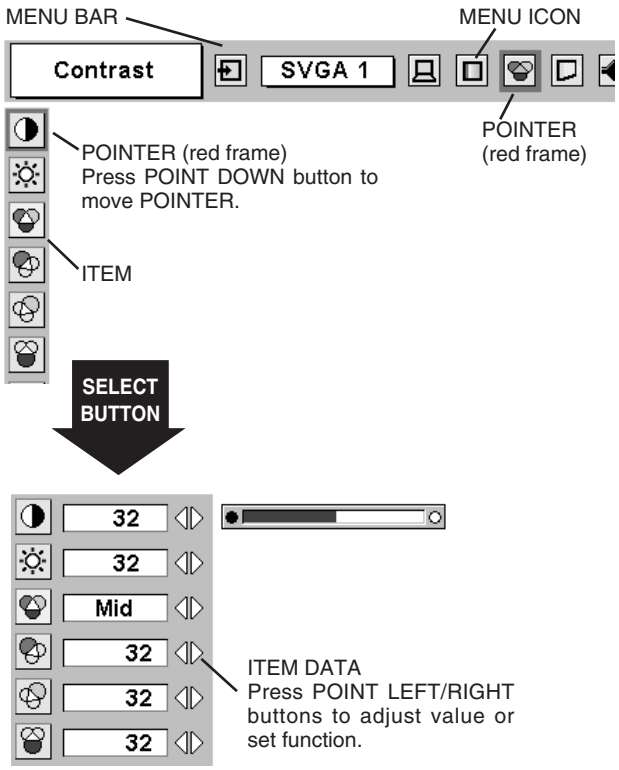
Select Menu to be adjusted

2 Move POINTER (red frame) to MENU ICON that you want to select by pressing POINT RIGHT / LEFT buttons.

Control or adjust item through ON-SCREEN MENU

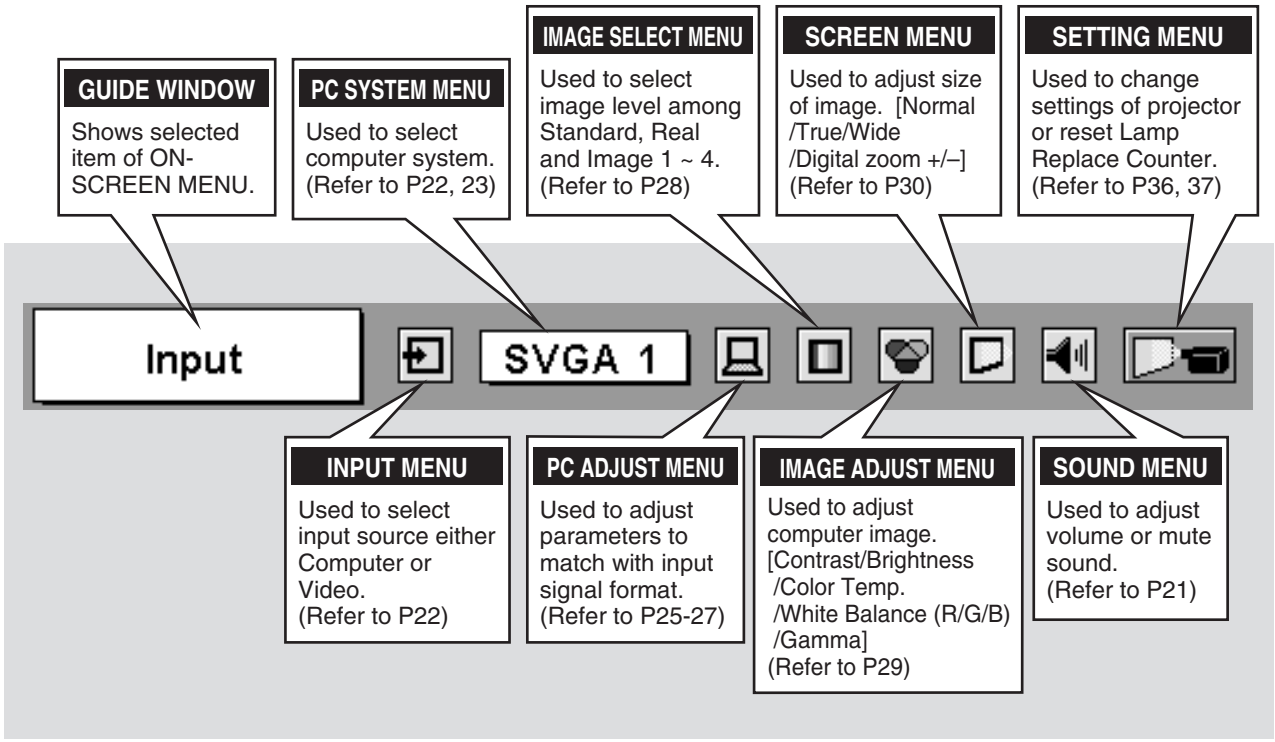
3 Press POINT DOWN button and move POINTER (red frame or red arrow) to ITEM that you want to adjust, and then press SELECT button to show ITEM DATA.

4 Adjust ITEM DATA by pressing POINT RIGHT / LEFT buttons.
Refer to the following pages for details of respective adjustments.

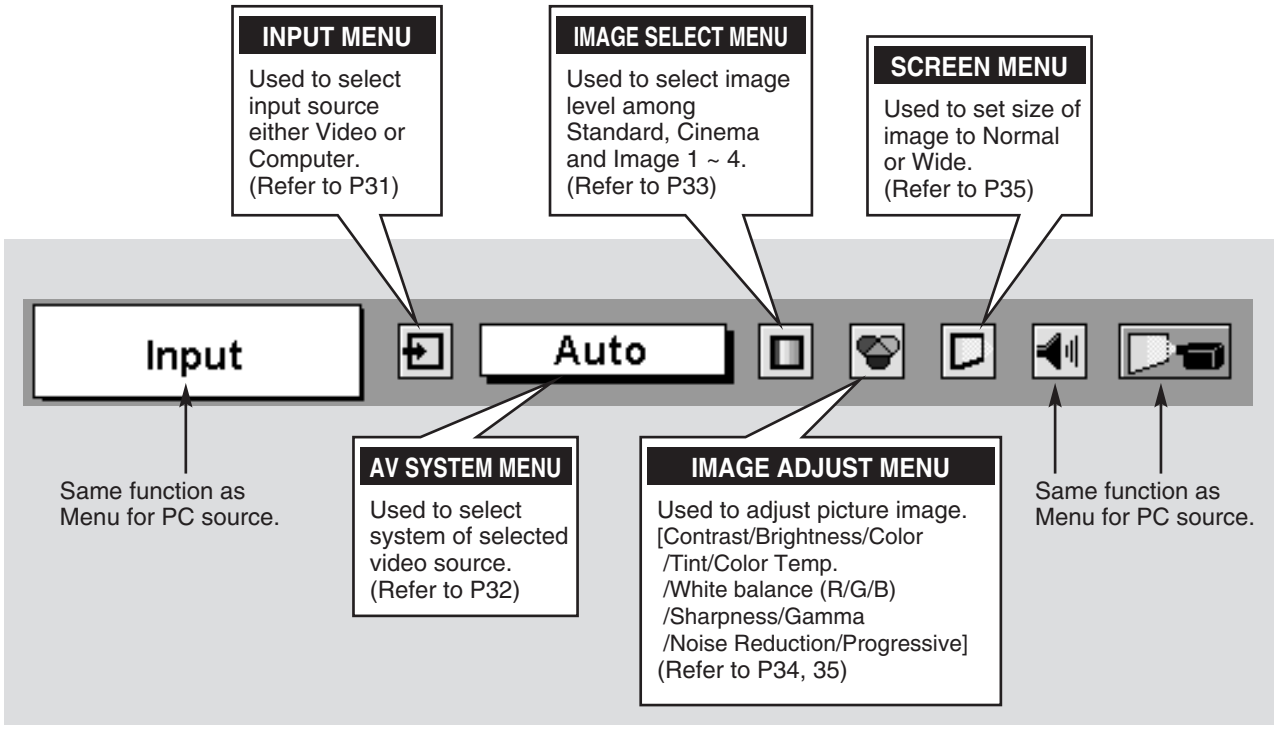


MENU BAR

FOR PC SOURCE Press MENU BUTTON while connecting to PC input source.



FOR VIDEO SOURCE Press MENU BUTTON while connecting to VIDEO input source.



TURNING ON / OFF PROJECTOR

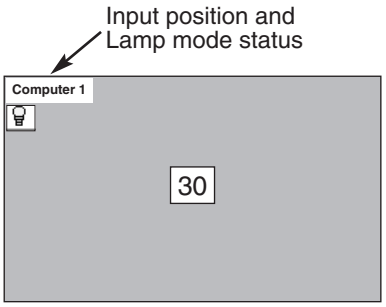
TURNING ON PROJECTOR

1 Complete peripheral connections (with Computer, VCR, etc.) before turning on projector. (Refer to "CONNECTING PROJECTOR" on pages 11~13 for connecting the equipment.)

2 Connect the projector's AC Power Cord into an AC outlet. LAMP Indicator lights RED, and READY Indicator lights GREEN.

NOTE : When “On start” function is ON, this projector is turned on automatically by connecting AC Power Cord to an AC outlet. (Refer to page 37.)

3 Press POWER ON-OFF button on Top Control or on Remote Control Unit to ON. LAMP Indicator dims, and Cooling Fans start to operate. Preparation Display appears on a screen and count-down starts. The signal from PC or Video source appears after 30 seconds.
Current Input position and Lamp mode status are also displayed on screen for 5 seconds. (Refer to "LAMP MODE" on page 37.)



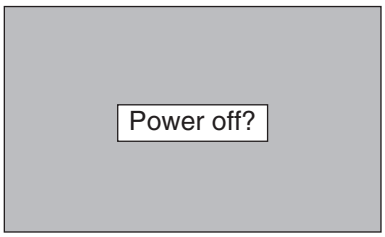
Preparation Display disappears after 30 seconds.

TURNING OFF PROJECTOR

1 Press POWER ON-OFF button on Top Control or on Remote Control Unit, and a message "Power off?" appears on a screen.

2 Press POWER ON-OFF button again to turn off the projector. LAMP Indicator lights bright and READY Indicator turns off. After the projector is turned off, Cooling Fans operate (for 90 seconds). During this "Cooling Down" period, this appliance cannot be turned on.

3 When projector has cooled down, READY Indicator lights GREEN again and you can turn the projector on. After cooling down completely, disconnect AC Power Cord.



Message disappears after 4 seconds.

TO MAINTAIN THE LIFE OF LAMP, ONCE YOU TURN PROJECTOR ON, WAIT AT LEAST 5 MINUTES BEFORE TURNING IT OFF.

When “Power Management” function is ON, projector detects signal interruption and turns off Projection Lamp automatically. Refer to “Power management” on pages 37.

When WARNING TEMP. indicator flashes red, projector is automatically turned off. Wait at least 5 minutes, confirm READY indicator will light green and projector may be turned on by pressing POWER ON-OFF button.

When both WARNING TEMP. and READY indicators to flash, a projector cannot be turned on by pressing POWER ON-OFF button. In this case, follow procedures below:
1. Disconnect AC Power Cord from an AC outlet.
2. Turn a projector on again. (Refer to steps 2-3 of TURNING ON PROJECTOR on this page.)

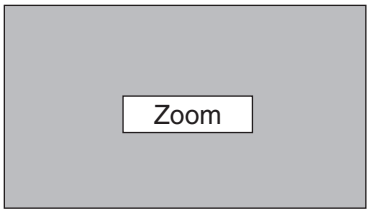
When WARNING TEMP. indicator continues to flash, follow procedures below:
1. Disconnect AC Power Cord from an AC outlet.
2. Check Air Filters for dust accumulation.
3. Clean Air Filters. (See "AIR FILTER CARE AND CLEANING" section on page 41.)
4. Turn a projector on again. (Refer to steps 2-3 of TURNING ON PROJECTOR on this page.)

If WARNING TEMP. indicator should still continue to flash, contact sales dealer where you purchased this projector or service center.

ADJUSTING SCREEN

ZOOM ADJUSTMENT

1. Press ZOOM button on Top Control or ZOOM ▲/▼ button on Remote Control Unit. The message “Zoom” is displayed.
2. Press ZOOM ▲ button or POINT UP button to make image larger, and press ZOOM ▼ button or POINT DOWN button to make image smaller.

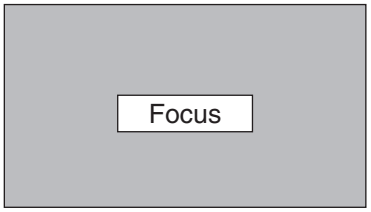


Message disappears after 4 seconds.

FOCUS ADJUSTMENT

1. Press FOCUS button on Top Control or FOCUS ▲/▼ button on Remote Control Unit. The message “Focus” is displayed.
2. Adjust focus of image by pressing FOCUS ▲/▼ button or POINT UP/DOWN button(s) .

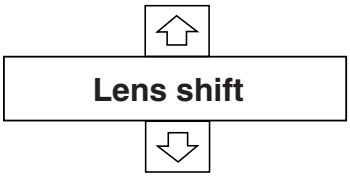
NOTE;
Focus adjustment may not function properly if the image is corrected by KEYSTONE adjustment.



Message disappears after 4 seconds.

LENS SHIFT ADJUSTMENT

1. Press LENS SHIFT button on Top Control or LENS SHIFT ▲/▼ button on Remote Control Unit. Message “Lens shift” is displayed.
2. Press POINT UP button or LENS SHIFT ▲ button to move image up, press POINT DOWN or LENS SHIFT ▼ button to move image down.



KEYSTONE ADJUSTMENT

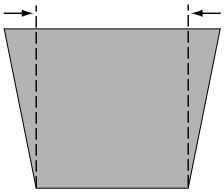
If a projected picture has keystone distortion, correct the image with KEYSTONE adjustment.

1. Press KEYSTONE button on Top Control or Remote Control Unit or select Keystone on SETTING menu. (Refer to page 36.) Keystone dialog box appears.
2. Correct keystone distortion by pressing POINT UP/DOWN/LEFT/RIGHT button(s). Press POINT UP button to reduce the upper part of the image, and press POINT DOWN button to reduce the lower part. Press POINT LEFT button to reduce the left part, and press POINT RIGHT button to reduce the right part.

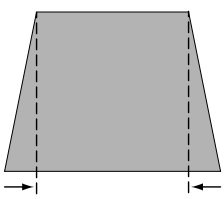


- Arrows are white in no correction.
- Arrow(s) of direction being corrected turn(s) red.
- Arrow(s) disappear(s) at the maximum correction.
- If you press the KEYSTONE button on Top Control or on Remote Control Unit once more while the keystone dialog box is being displayed, the keystone adjustment will be canceled.

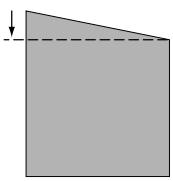
Reduce the upper width with POINT UP button.



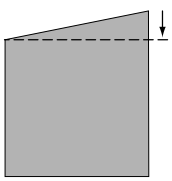
Reduce the lower width with POINT DOWN button.



Reduce the left part with POINT LEFT button.



Reduce the right part with POINT RIGHT button.

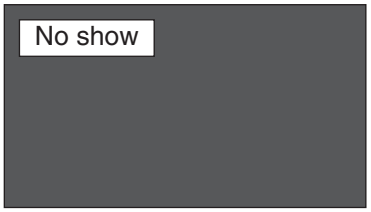


PICTURE FREEZE FUNCTION

Press FREEZE button on Remote Control Unit to freeze the picture on-screen. To cancel FREEZE function, press FREEZE button again or press any other button.

NO SHOW FUNCTION

Press NO SHOW button on Remote Control Unit to black out the image. To restore to normal, press NO SHOW button again or press any other button.



Message disappears after 4 seconds.

P-TIMER FUNCTION

Press P-TIMER button on Remote Control Unit. The timer display "00 : 00" appears on the screen and the timer starts to count time (00 : 00 ~ 59 : 59).
To stop P-TIMER display, press P-TIMER button. And then, press P-TIMER button again to cancel P-TIMER function.



SOUND ADJUSTMENT

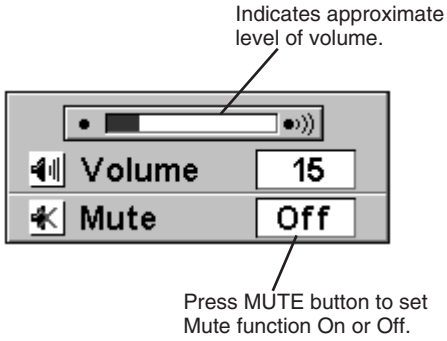
DIRECT OPERATION

Volume

Press VOLUME (+/–) button(s) on Top Control or on Remote Control Unit to adjust volume. Volume dialog box appears on the screen for a few seconds.
(+) button to increase volume, and (–) button for decreasing.

Mute

Press MUTE button on Remote Control Unit to cut off sound. To restore sound to its previous level, press MUTE button again or press Volume (+/–) button(s).



The display disappears after 4 seconds.

MENU OPERATION

1 Press MENU button and ON-SCREEN MENU will appear. Press POINT LEFT/RIGHT buttons to move a red frame pointer to SOUND Menu icon.

2 Press POINT DOWN button to move a red frame pointer to the item that you want to select, and then press SELECT button.

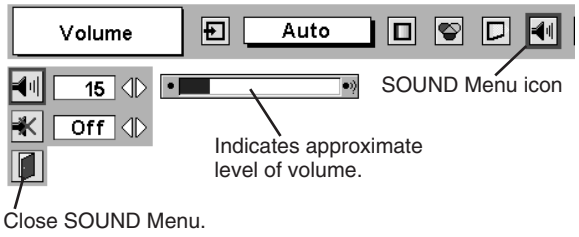
Volume

To increase volume, press POINT RIGHT button, and press POINT LEFT button to decrease volume.

Mute

Press POINT LEFT/RIGHT button(s) to cut off sound. Dialog box display is changed to "On" and sound is cut off. To restore sound to its previous level, press POINT LEFT/RIGHT button(s) again.

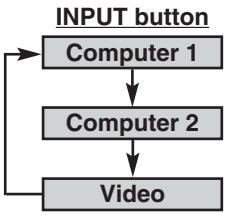
SOUND MENU



SELECTING INPUT SOURCE

DIRECT OPERATION

Select INPUT source by pressing INPUT button on Top Control.
Select INPUT source by pressing COMPUTER 1 or COMPUTER 2 button on Remote Control Unit.
If projector cannot reproduce proper image, select correct input source through MENU OPERATION (see below).



MENU OPERATION

When connect the output (Analog) from computer to Computer 1 (HDB 15-pin) terminal on the projector.

1 Press MENU button and ON-SCREEN MENU will appear. Press POINT LEFT/RIGHT button to move a red frame pointer to INPUT Menu icon.

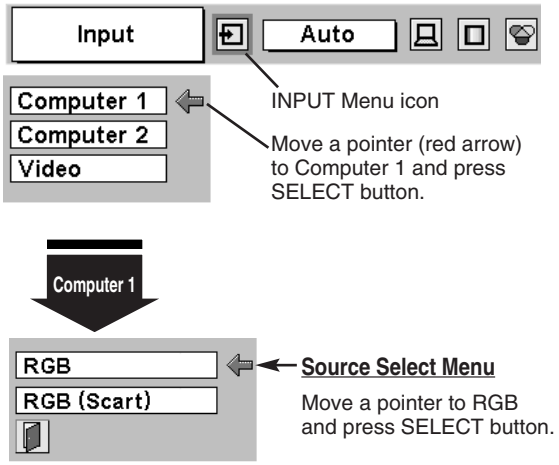
2 Press POINT DOWN button to move a red arrow pointer to Computer 1 and then press SELECT button. Source Select Menu will appear.

3 Press POINT DOWN button and a red-arrow icon will appear. Move arrow to "RGB" and press SELECT button.

RGB When computer is connected to Computer 1, select RGB.

RGB (Scart) When video equipment is connected to Computer 1 terminal, select RGB (Scart). Refer to P31.

INPUT MENU



When connect the output (Digital/Analog) from computer to Computer 2 (DVI-I) terminal on the projector.

1 Press MENU button and ON-SCREEN MENU will appear. Press POINT LEFT/RIGHT button to move a red frame pointer to INPUT Menu icon.

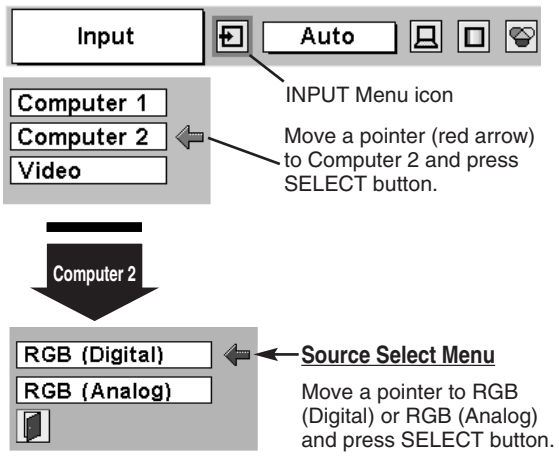
2 Press POINT DOWN button to move a red arrow pointer to Computer 2 and then press SELECT button. Source Select Menu will appear.

3 Move a pointer to either RGB (Digital) or RGB (Analog) and then press SELECT button.

RGB (Digital) When digital signal is connected to DVI terminal, select Digital.

RGB (Analog) When analog signal is connected to DVI terminal, select Analog.

INPUT MENU



SELECTING COMPUTER SYSTEM

This projector automatically tunes to most different types of computers based on VGA, SVGA, XGA or SXGA (refer to "COMPATIBLE COMPUTER SPECIFICATIONS" on page 24). When selecting Computer, this projector automatically tunes to incoming signal and projects proper image without any special setting. (Some computers need setting manually.)

Note : Projector may display one of the following messages.

Auto

When projector cannot recognize connected signal as PC system provided in this projector, Auto PC Adjustment function operates to adjust projector and the message "Auto" is displayed on SYSTEM Menu icon. (Refer to P25.) When image is not provided properly, manual adjustment is required. (Refer to P26 and 27.)

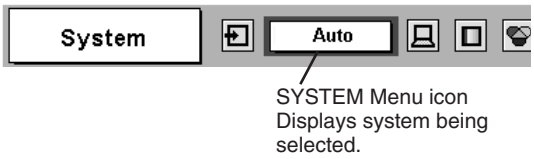
——

There is no signal input from computer. Make sure the connection of computer and a projector is set correctly. (Refer to TROUBLESHOOTING on page 42.)

D-VGA, D-SVGA or D-XGA

When digital computer signal is received on DVI terminal, above message is displayed on PC SYSTEM Menu icon.

PC SYSTEM MENU



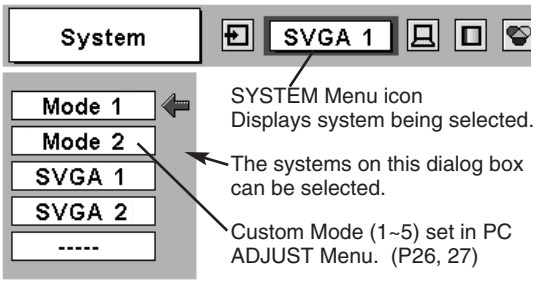
SELECT COMPUTER SYSTEM MANUALLY

This projector automatically selects PC system among those provided in this projector and PC system can be also selected manually.

1 Press MENU button and ON-SCREEN MENU will appear. Press POINT LEFT/RIGHT buttons to move a red frame pointer to PC SYSTEM Menu icon.

2 Press POINT DOWN button to move a red arrow pointer to the system that you want to set, and then press SELECT button.

PC SYSTEM MENU



COMPATIBLE COMPUTER SPECIFICATIONS

Basically this projector can accept the signal from all computers with the V, H-Frequency below mentioned and less than 140 MHz of Dot Clock.

ON-SCREEN DISPLAY	RESOLUTION	H-Freq. (kHz)	V-Freq. (Hz)
VGA 1	640 x 480	31.47	59.88
VGA 2	720 x 400	31.47	70.09
VGA 3	640 x 400	31.47	70.09
VGA 4	640 x 480	37.86	74.38
VGA 5	640 x 480	37.86	72.81
VGA 6	640 x 480	37.50	75.00
VGA 7	640 x 480	43.269	85.00
MAC LC13	640 x 480	34.97	66.60
MAC 13	640 x 480	35.00	66.67
RGB	————	15.625	50 (Interlace)
RGB	————	15.734	60 (Interlace)
SVGA 1	800 x 600	35.156	56.25
SVGA 2	800 x 600	37.88	60.32
SVGA 3	800 x 600	46.875	75.00
SVGA 4	800 x 600	53.674	85.06
SVGA 5	800 x 600	48.08	72.19
SVGA 6	800 x 600	37.90	61.03
SVGA 7	800 x 600	34.50	55.38
SVGA 8	800 x 600	38.00	60.51
SVGA 9	800 x 600	38.60	60.31
SVGA 10	800 x 600	32.70	51.09
SVGA 11	800 x 600	38.00	60.51
MAC 16	832 x 624	49.72	74.55
XGA 1	1024 x 768	48.36	60.00
XGA 2	1024 x 768	68.677	84.997
XGA 3	1024 x 768	60.023	75.03
XGA 4	1024 x 768	56.476	70.07
XGA 5	1024 x 768	60.31	74.92
XGA 6	1024 x 768	48.50	60.02
XGA 7	1024 x 768	44.00	54.58
XGA 8	1024 x 768	63.48	79.35
XGA 9	1024 x 768	36.00	87.17 (Interlace)
XGA 10	1024 x 768	62.04	77.07

ON-SCREEN DISPLAY	RESOLUTION	H-Freq. (kHz)	V-Freq. (Hz)
XGA 11	1024 x 768	61.00	75.70
XGA 12	1024 x 768	35.522	86.96 (Interlace)
XGA 13	1024 x 768	46.90	58.20
XGA 14	1024 x 768	47.00	58.30
XGA 15	1024 x 768	58.03	72.00
MAC 19	1024 x 768	60.24	75.08
MAC 21	1152 x 870	68.68	75.06
SXGA 1	1152 x 864	64.20	70.40
SXGA 2	1280 x 1024	62.50	58.60
SXGA 3	1280 x 1024	63.90	60.00
SXGA 4	1280 x 1024	63.34	59.98
SXGA 5	1280 x 1024	63.74	60.01
SXGA 6	1280 x 1024	71.69	67.19
SXGA 7	1280 x 1024	81.13	76.107
SXGA 8	1280 x 1024	63.98	60.02
SXGA 9	1280 x 1024	79.976	75.025
SXGA 10	1280 x 960	60.00	60.00
SXGA 11	1152 x 900	61.20	65.20
SXGA 12	1152 x 900	71.40	75.60
SXGA 13	1280 x 1024	50.00	86.00 (Interlace)
SXGA 14	1280 x 1024	50.00	94.00 (Interlace)
SXGA 15	1280 x 1024	63.37	60.01
SXGA 16	1280 x 1024	76.97	72.00
SXGA 17	1152 x 900	61.85	66.00
SXGA 18	1280 x 1024	46.43	86.70 (Interlace)
SXGA 19	1280 x 1024	63.79	60.18
SXGA 21	1400 x 1050	63.93	60.00
MAC	1280 x 960	75.00	75.08
MAC	1280 x 1024	80.00	75.08
720p (HDTV)	————	45.00	60.00
1035i (HDTV)	————	33.75	60.00 (Interlace)
1080i 60(HDTV)	————	33.75	60.00 (Interlace)
1080i 50(HDTV)	————	28.125	50.00 (Interlace)

When a input signal is digital from DVI terminal, refer to the chart below.

ON-SCREEN DISPLAY	RESOLUTION	H-Freq. (kHz)	V-Freq. (Hz)
D-VGA	640 x 480	31.469	59.940
D-SVGA	800 x 600	37.879	60.317

ON-SCREEN DISPLAY	RESOLUTION	H-Freq. (kHz)	V-Freq. (Hz)
D-XGA	1024 x 768	48.363	60.004

NOTE : Specifications are subject to change without notice.

PC ADJUSTMENT

AUTO PC ADJUSTMENT

Auto PC Adjustment function is provided to automatically adjust Fine sync, Total dots and Picture Position to conform to your computer. Auto PC Adjustment function can be operated as follows.

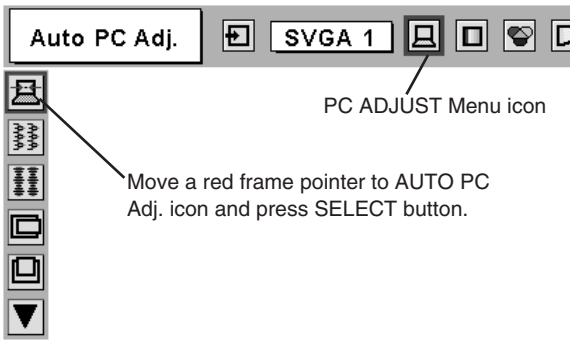
Auto PC Adj.

1 Press MENU button and ON-SCREEN MENU will appear. Press POINT LEFT/RIGHT button to move a red frame pointer to PC ADJUST Menu icon.

2 Press POINT DOWN button to move a red frame pointer to AUTO PC Adj. icon and then press SELECT button twice.
This Auto PC Adjustment can be also executed by pressing AUTO PC ADJ. button on Top Control or on Remote Control Unit.

Store adjustment parameters.
Adjustment parameters from Auto PC Adjustment can be memorized in this projector. Once parameters are memorized, the setting can be done just by selecting Mode in PC SYSTEM Menu (P23). Refer to step 3 of MANUAL PC ADJUSTMENT section (P27).

PC ADJUST MENU



NOTE

- Fine sync, Total dots and Picture Position of some computers can not be fully adjusted with this Auto PC Adjustment function. When the image is not provided properly through this function, manual adjustments are required. (Refer to page 26, 27.)
- Auto PC Adjustment function cannot be operated in Digital Signal input on DVI terminal and “RGB”, “1035i (HDTV)”, “1080i50 (HDTV)” or “1080i60 (HDTV)” is selected on PC SYSTEM Menu (P23).

MANUAL PC ADJUSTMENT

This projector can automatically tune to the display signals from most personal computers currently distributed. However, some computers employ special signal formats which are different from the standard ones and may not be tuned by Multi-Scan system of this projector. If this happens, projector cannot reproduce a proper image and the image may be recognized as a flickering picture, a non-synchronized picture, a non-centered picture or a skewed picture.
This projector has a Manual PC Adjustment to enable you to precisely adjust several parameters to match with those special signal formats. This projector has 5 independent memory areas to memorize those parameters manually adjusted. This enables you to recall the setting for a specific computer whenever you use it.

Note : This PC ADJUST Menu cannot be operated in Digital Signal input on DVI terminal is selected on PC SYSTEM MENU (P23).

1 Press MENU button and ON-SCREEN MENU will appear. Press POINT LEFT/RIGHT button to move a red frame pointer to PC ADJUST Menu icon.

2 Press POINT DOWN button to move a red frame pointer to the item that you want to adjust and then press SELECT button. Adjustment dialog box will appear. Press POINT LEFT/RIGHT button to adjust value.

Fine sync

Adjusts an image as necessary to eliminate flicker from the display. Press POINT LEFT/RIGHT button to adjust value.(From 0 to 31.)

Total dots

The number of total dots in one horizontal period. Press POINT LEFT/RIGHT button(s) and adjust number to match your PC image.

Horizontal

Adjusts horizontal picture position. Press POINT LEFT/RIGHT button(s) to adjust the position.

Vertical

Adjusts vertical picture position. Press POINT LEFT/RIGHT button(s) to adjust the position.

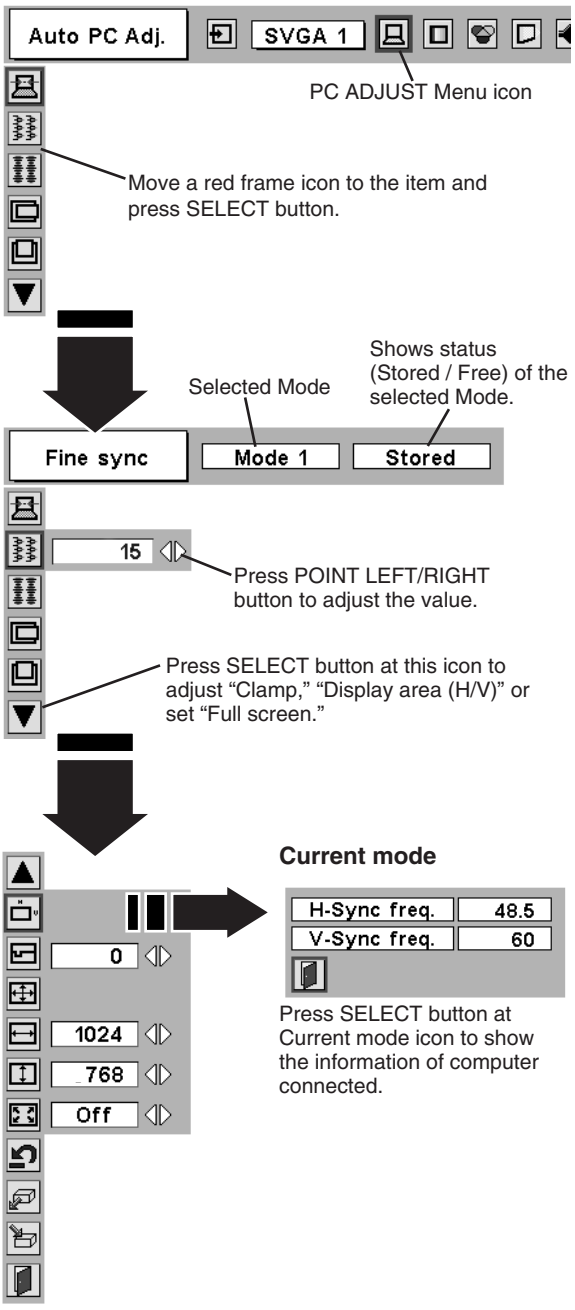
Current mode

Press SELECT button to show the information of computer selected.

Clamp

Adjusts clamp level. When the image has a dark bar(s), try this adjustment.

PC ADJUST MENU



Display area

Selects area displayed with this projector. Select the resolution at Display area dialog box.

Display area H

Adjustment of horizontal area displayed with this projector. Press POINT LEFT/RIGHT button(s) to decrease/increase value and then press SELECT button.

Display area V

Adjustment of vertical area displayed with this projector. Press POINT LEFT/RIGHT button(s) to decrease/increase value and then press SELECT button.

Full screen

Press POINT LEFT/RIGHT button(s) to switch Full screen function to "On" or "Off." Set "On" to resize the image with 4 x 3 aspect ratio to fit the screen.

NOTE : Fine sync, Display area, Display area H, Display area V and Full screen cannot be adjusted when "RGB", "1035i (HDTV)", "1080i50(HDTV)" or "1080i60 (HDTV)" is selected on PC SYSTEM Menu (P23).

3 **Store**

To store adjustment parameters, move a red frame pointer to Store icon and then press SELECT button. Move a red arrow pointer to any of Mode 1 to 5 that you want to store to and then press SELECT button.

Mode free

To clear adjustment parameters previously set, move a red frame pointer to Mode free icon and then SELECT button. Move a red arrow pointer to the Mode that you want to clear and then press SELECT button.

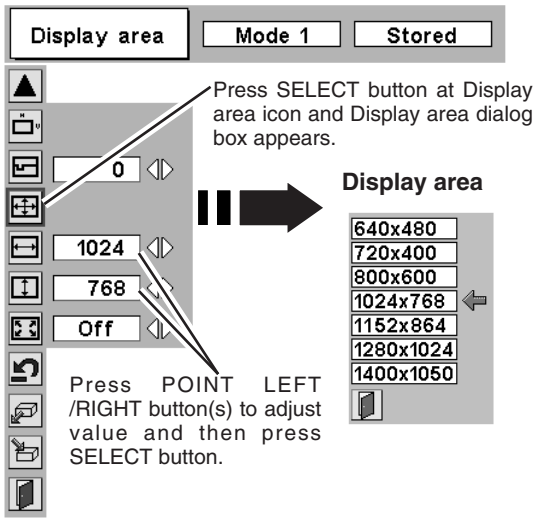
Other icons operate as follows.

Reset

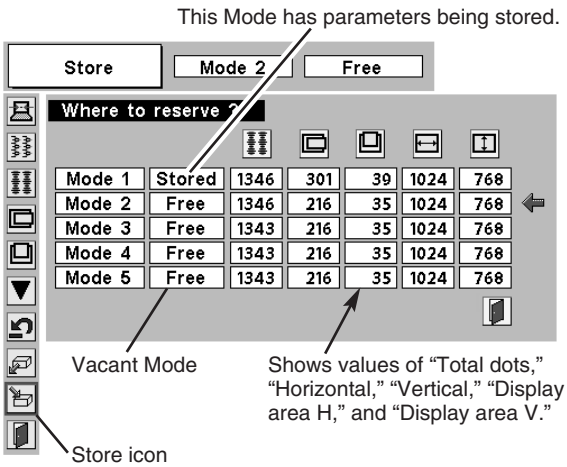
Reset all adjust parameters on adjustment dialog box to previous figure.

Quit

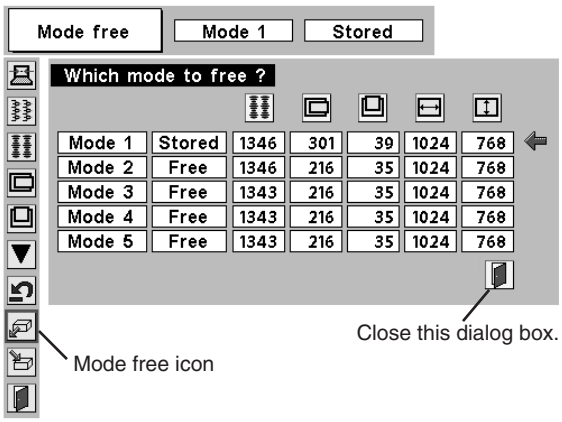
Closes PC ADJUST MENU.



To store adjustment data.



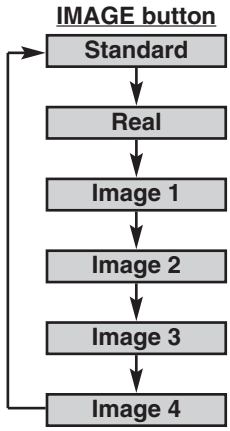
To clear adjustment data.



PICTURE IMAGE ADJUSTMENTS

IMAGE LEVEL SELECT (DIRECT)

Select image level among Standard, Real, Image 1, Image 2, Image 3 and Image 4 by pressing IMAGE button on Top Control or on Remote Control Unit.



Standard

Normal picture level preset on this projector.

Real

Picture level with improved halftone for graphics.

IMAGE 1~4

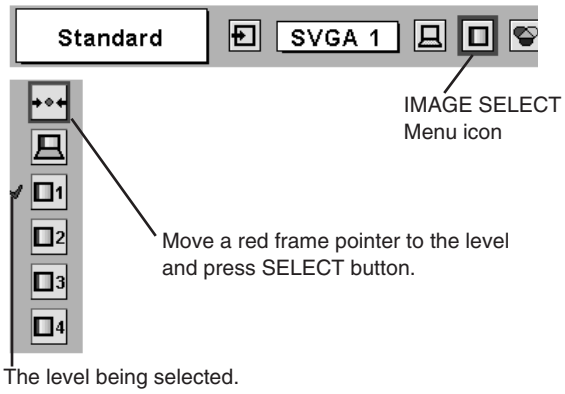
User preset picture adjustment in IMAGE ADJUST Menu (P29).

IMAGE LEVEL SELECT (MENU)

1 Press MENU button and ON-SCREEN MENU will appear. Press POINT LEFT/RIGHT button to move a red frame pointer to IMAGE SELECT Menu icon.

2 Press POINT DOWN button to move a red frame pointer to the level that you want to set and then press SELECT button.

IMAGE SELECT MENU



Standard

Normal picture level preset on this projector.

Real

Picture level with improved halftone for graphics.

IMAGE 1~4

User preset picture adjustment in IMAGE ADJUST Menu (P29).

IMAGE LEVEL ADJUSTMENT

1 Press MENU button and ON-SCREEN MENU will appear. Press POINT LEFT/RIGHT buttons to move a red frame pointer to IMAGE ADJUST Menu icon.

2 Press POINT DOWN button to move a red frame pointer to the item that you want to adjust. and then press SELECT button. The level of each item is displayed. Adjust each level by pressing POINT LEFT/RIGHT button(s).

Contrast

Press POINT LEFT button to decrease contrast, and POINT RIGHT button to increase contrast. (From 0 to 63.)

Brightness

Press POINT LEFT button to adjust image darker, and POINT RIGHT button to adjust brighter. (From 0 to 63.)

Color temp.

Press either POINT LEFT button or POINT RIGHT button to Color temp. level that you want to select. (XLow, Low, Mid or High)

White balance (Red)

Press POINT LEFT button to lighten red tone and POINT RIGHT button to deeper tone. (From 0 to 63.)

White balance (Green)

Press POINT LEFT button to lighten green tone and POINT RIGHT button to deeper tone. (From 0 to 63.)

White balance (Blue)

Press POINT LEFT button to lighten blue tone and POINT RIGHT button to deeper tone. (From 0 to 63.)

Gamma

Press either POINT LEFT button or POINT RIGHT button to obtain better balance of contrast. (From 0 to 15.)

3 **Store**

To store manually preset image, move a red frame pointer to Store icon and press SELECT button. Image Level Menu will appear. Move a red frame pointer to the Image 1 to 4 where you want to set and then press SELECT button.

Other icons operates as follows.

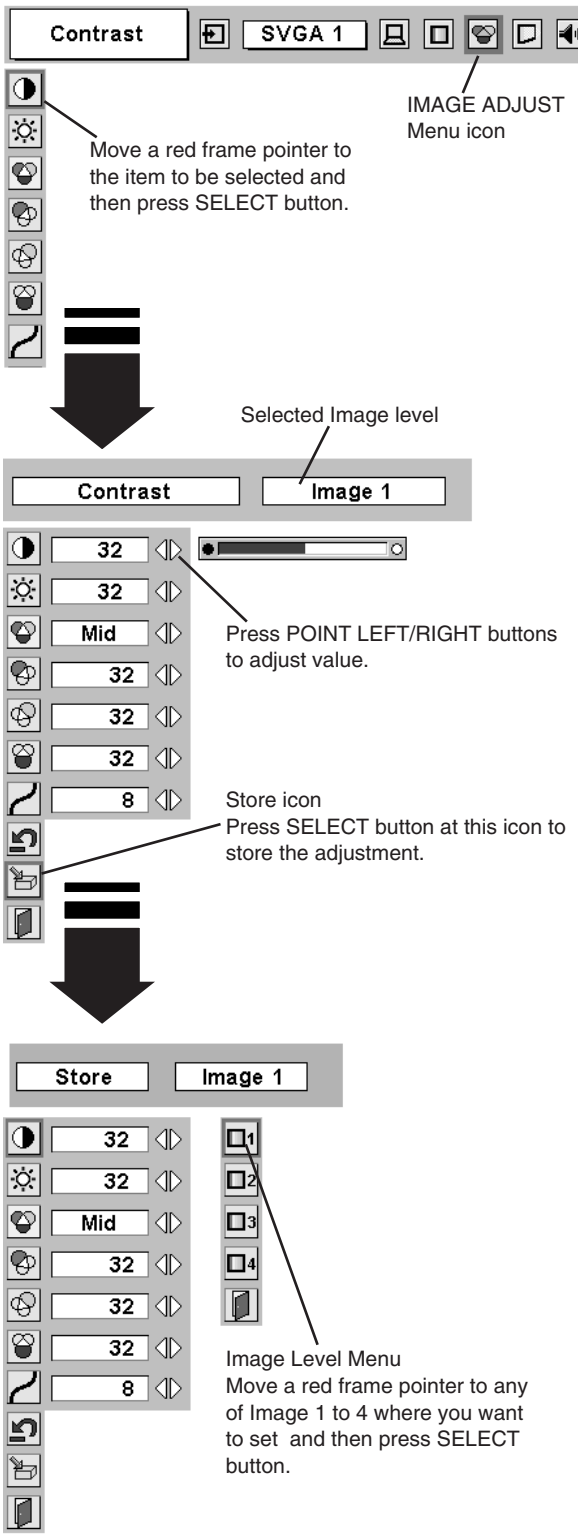
Reset

Reset all adjustment to previous figure.

Quit

Closes IMAGE MENU.

IMAGE ADJUST MENU



PICTURE SCREEN ADJUSTMENT

This projector has a picture screen resize function, which enables you to display the desirable image size.

1 Press MENU button and ON-SCREEN MENU will appear. Press POINT LEFT/RIGHT button(s) to move a red frame pointer to SCREEN Menu icon.

2 Press POINT DOWN button and move a red frame pointer to the function that you want to select and then press SELECT button.

Normal

Provides image to fit screen size.

True

Provides image in its original size. When the original image size is larger than screen size (1024 x 768), this projector enters "Digital zoom +" mode automatically.

Wide

Provides image to fit wide video aspect ratio (16 : 9) by expanding image width uniformly. This function can be used for providing a squeezed video signal at 16 : 9.

Digital zoom +

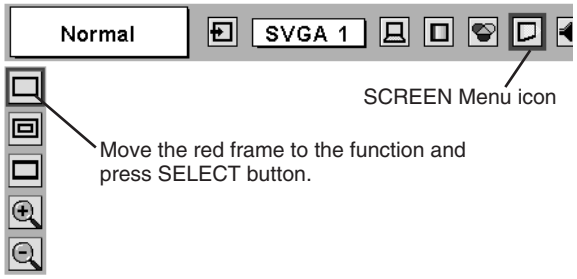
When Digital zoom + is selected, ON-SCREEN MENU disappears and the message "D. Zoom +" is displayed. Press SELECT button to expand image size. And press POINT UP/DOWN/LEFT/RIGHT button(s) to pan the image. Panning function can work only when the image is larger than screen size.
A projected image can be also expanded by pressing D.ZOOM ▲ button on Remote Control Unit.

Digital Zoom –

When Digital zoom – is selected, ON-SCREEN MENU disappears and the message "D. Zoom –" is displayed. Press SELECT button to compress image size.
A projected image can be also compressed by pressing D.ZOOM ▼ button on Remote Control Unit.

To cancel Digital Zoom +/– mode, press any button except D.ZOOM ▲/▼, SELECT, POINT and LASER buttons.

SCREEN MENU



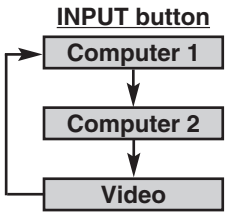
NOTE

- Picture screen adjustment cannot be operated when "1035i (HDTV)", "1080i50 (HDTV)" or "1080i60 (HDTV)" is selected on PC SYSTEM Menu (P23).
- Wide cannot be selected when "720p (HDTV)" is selected on PC SYSTEM Menu (P23).
- True and Digital zoom +/– cannot be operated when "RGB" is selected on PC SYSTEM Menu (P23).
- This projector cannot display any resolution higher than 1280 X 1024. If your computer's screen resolution is higher than 1280 X 1024, reset the resolution to the lower before connecting projector.
- The image data in other than XGA (1024 x 768) is modified to fit the screen size in initial mode.
- Panning function may not operate properly if the computer system prepared on PC ADJUST Menu is used.

SELECTING INPUT SOURCE

DIRECT OPERATION

Select INPUT source by pressing INPUT button on Top Control.
Select INPUT source by pressing COMPUTER 1 or VIDEO button on Remote Control Unit.
If projector cannot reproduce proper image, select correct input source through MENU OPERATION (see below).



MENU OPERATION

When connecting to those equipment, select a type of Video source in SOURCE SELECT MENU.

1 Press MENU button and ON-SCREEN MENU will appear. Press POINT LEFT/RIGHT button to move a red frame pointer to INPUT Menu icon.

2 Press POINT DOWN button to move a red arrow pointer to Video and then press SELECT button. Source Select Menu will appear.

3 Move a pointer to the source that you want to select and then press SELECT button.

Auto Projector automatically detects incoming Video signal, and adjusts itself to optimize its performance.

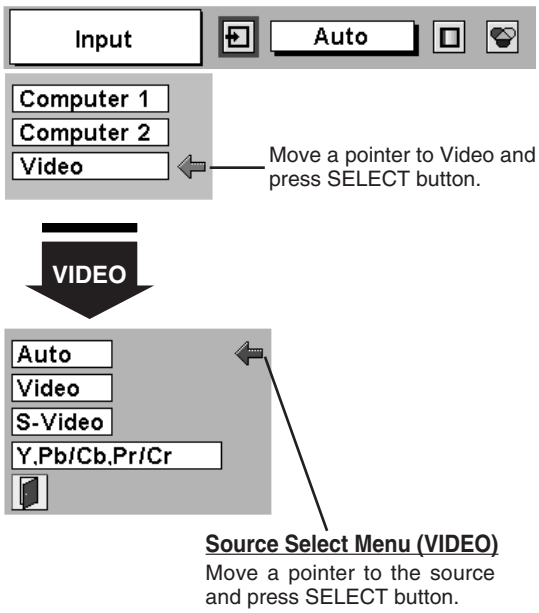
- When both VIDEO jack and S-VIDEO jack are connected, S-VIDEO jack has priority over VIDEO jack.
- When both Y-Pb/Cb-Pr/Cr jacks and S-VIDEO jack are connected, Y-Pb/Cb-Pr/Cr jacks have priority over S-VIDEO jack.

Video When video input signal is connected to VIDEO jack, select Video.

S-Video When video input signal is connected to S-VIDEO jack, select S-Video.

Y,Pb/Cb,Pr/Cr When video input signal is connected to Y-Pb/Cb-Pr/Cr jacks, select Y, Pb/Cb, Pr/Cr.

INPUT MENU



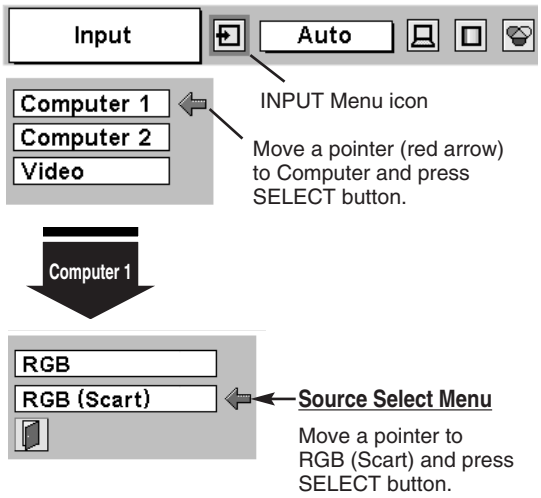
When connect the 21-pin Scart (RGB) output from video equipment to computer 1 (HDB 15-pin) terminal on the projector.

1 Press MENU button and ON-SCREEN MENU will appear. Press POINT LEFT/RIGHT button to move a red frame pointer to INPUT Menu icon.

2 Press POINT DOWN button to move a red arrow pointer to Computer 1 and then press SELECT button. Source Select Menu will appear.

3 Press POINT DOWN button and a red-arrow icon will appear. Move arrow to "RGB (Scart)" and press SELECT button.

INPUT MENU



SELECTING VIDEO SYSTEM

1 Press MENU button and ON-SCREEN MENU will appear. Press POINT LEFT/RIGHT buttons to move a red frame pointer to AV SYSTEM Menu icon.

2 Press POINT DOWN button to move a red arrow pointer to the system that you want to select and then press SELECT button.

VIDEO JACK OR S-VIDEO JACK

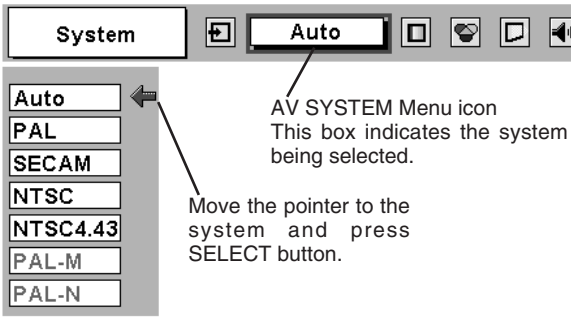
Auto

Projector automatically detects incoming Video system, and adjusts itself to optimize its performance.
When Video System is PAL-M or PAL-N, select system manually.

PAL / SECAM / NTSC / NTSC4.43 / PAL-M / PAL-N

If projector cannot reproduce proper video image, it is necessary to select a specific broadcast signal format among PAL, SECAM, NTSC, NTSC 4.43, PAL-M, and PAL-N.

AV SYSTEM MENU (VIDEO OR S-VIDEO)



Y, Pb/Cb, Pr/Cr JACKS

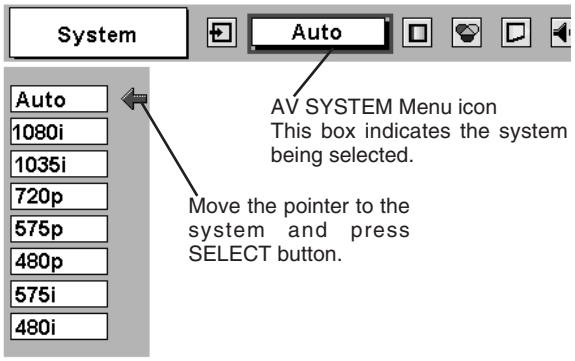
Auto

Projector automatically detects incoming Video signal, and adjusts itself to optimize its performance.

COMPONENT VIDEO SIGNAL FORMAT

If projector cannot reproduce proper video image, it is necessary to select a specific component video signal format among 480i, 575i, 480p, 575p, 720p, 1035i and 1080i.

AV SYSTEM MENU (COMPONENT VIDEO)



PICTURE IMAGE ADJUSTMENTS

IMAGE LEVEL SELECT (DIRECT)

Select image level among Standard, Cinema, Image 1, Image 2, Image 3 and Image 4 by pressing IMAGE button on Top Control or on Remote Control Unit.

Standard

Normal picture level preset on this projector.

Cinema

Picture level adjusted for the picture with fine tone.

IMAGE 1~4

User preset picture adjustment in IMAGE ADJUST Menu (P34, 35).

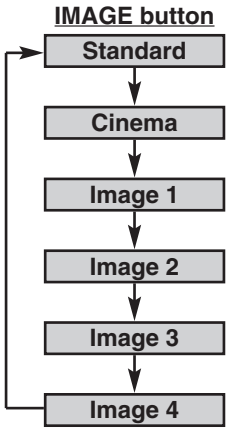


IMAGE LEVEL SELECT (MENU)

1 Press MENU button and ON-SCREEN MENU will appear. Press POINT LEFT/RIGHT button to move a red frame pointer to IMAGE SELECT Menu icon.

2 Press POINT DOWN button to move a red frame pointer to the level that you want to set and then press SELECT button.

Standard

Normal picture level preset on this projector.

Cinema

Picture level adjusted for the picture with fine tone.

IMAGE 1~4

User preset picture adjustment in IMAGE ADJUST Menu (P34, 35).

IMAGE SELECT MENU

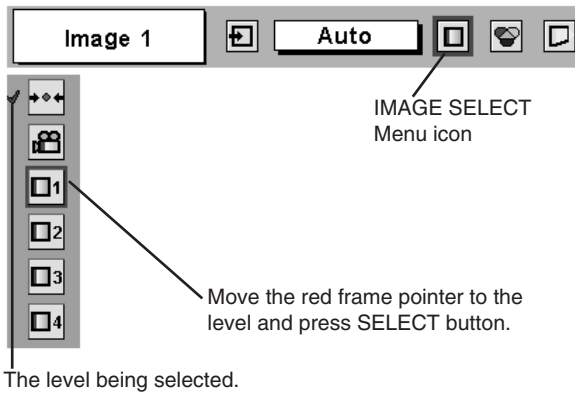


IMAGE LEVEL ADJUSTMENT

1 Press MENU button and ON-SCREEN MENU will appear. Press POINT LEFT/RIGHT button(s) to move a red frame pointer to IMAGE ADJUST Menu icon.

2 Press POINT DOWN button to move a red frame pointer to the item that you want to adjust and then press SELECT button. The level of each item is displayed. Adjust each level by pressing POINT LEFT/RIGHT button(s).

Contrast

Press POINT LEFT button to decrease contrast, and POINT RIGHT button to increase contrast. (From 0 to 63.)

Brightness

Press POINT LEFT button to adjust image darker, and POINT RIGHT button to adjust brighter. (From 0 to 63.)

Color

Press POINT LEFT button to lighten color, and POINT RIGHT button to deeper color. (From 0 to 63.)

Tint

Press POINT LEFT button or POINT RIGHT button to obtain proper color. (From 0 to 63.)

Color temp.

Press either POINT LEFT button or POINT RIGHT button to Color temp. level that you want to select. (XLow, Low, Mid or High)

White balance (Red)

Press POINT LEFT button to lighten red tone and POINT RIGHT button to deeper tone. (From 0 to 63.)

White balance (Green)

Press POINT LEFT button to lighten green tone and POINT RIGHT button to deeper tone. (From 0 to 63.)

White balance (Blue)

Press POINT LEFT button to lighten blue tone and POINT RIGHT button to deeper tone. (From 0 to 63.)

Sharpness

Press POINT LEFT button to soften the image, and POINT RIGHT button to sharpen the image. (From 0 to 31.)

Gamma

Press either POINT LEFT button or POINT RIGHT button to obtain better balance of contrast. (From 0 to 15.)

Noise reduction

Press POINT LEFT/RIGHT button(s) to change noise reduction mode. Dialog box display is changed to “On” to reduce noise (rough parts) of image. Press POINT LEFT/RIGHT button(s) again, to change noise reduction mode to off.

Progressive scan

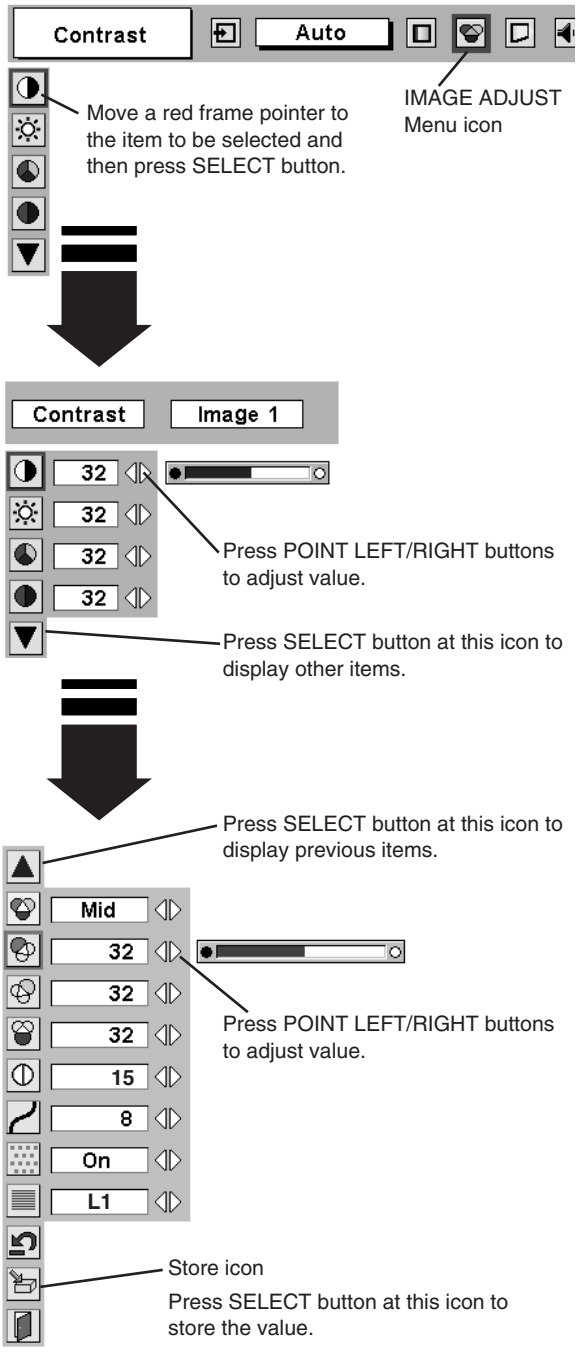
Press POINT LEFT/RIGHT button(s) to change progressive scan mode. Dialog box display is changed to “Off”, “L1”, “L2”.

Off ··· Progressive scan mode to OFF.

L1 ···· Progressive scan mode to ON (for active picture).

L2 ···· Progressive scan mode to ON (for still picture).

IMAGE ADJUST MENU



NOTE :

Tint cannot be adjusted when the video system is PAL, SECAM, PAL-M or PAL-N.

Progressive cannot be operated when “480p”, “575p”, “720p”, “1035i” or “1080i” is selected on AV SYSTEM MENU (P32).

3 **Store**

To store the adjustment data, move a red frame pointer to Store icon and press SELECT button. Image Level Menu will appear. Move a red frame pointer to the Image Level 1 to 4 and then press SELECT button.

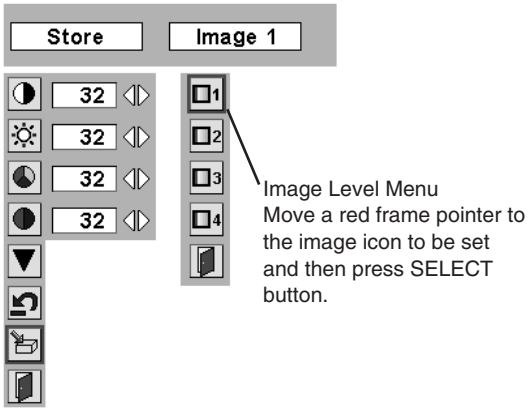
Other icons operates as follows.

Reset

Reset all adjustment to previous figure.

Quit

Closes IMAGE MENU.



PICTURE SCREEN ADJUSTMENT

This projector has a picture screen resize function, which enables you to display the desirable image size.

1 Press MENU button and ON-SCREEN MENU will appear. Press POINT LEFT/RIGHT button(s) to move a red frame pointer to SCREEN Menu icon.

2 Press POINT DOWN button and move a red frame pointer to the function that you want to select and then press SELECT button.

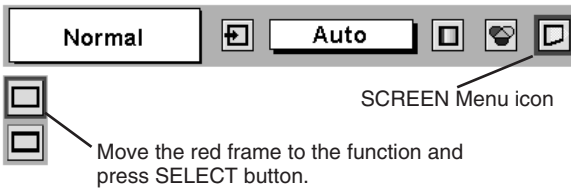
Normal

Provides image at a normal video aspect ratio of 4 : 3.

Wide

Provides image at a wide screen ratio of 16 : 9.

SCREEN MENU



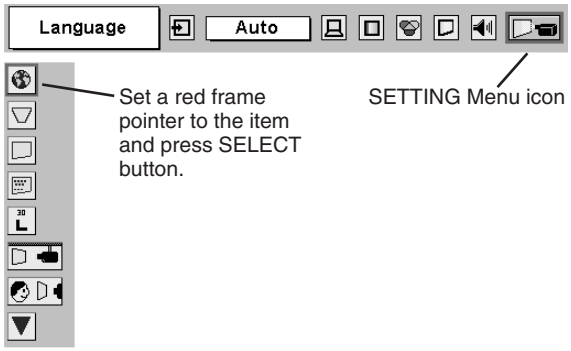
NOTE : SCREEN Menu cannot be operated when “720p,” “1035i,” or “1080i” is selected on AV SYSTEM Menu (P32).

SETTING MENU

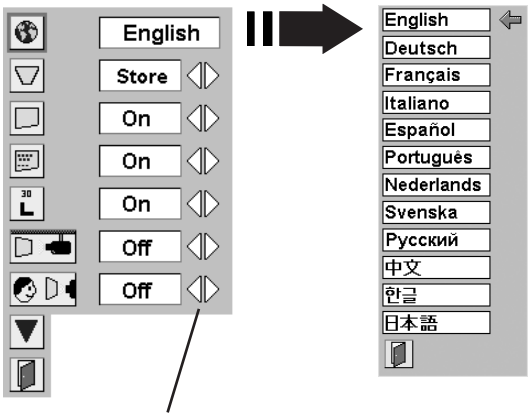
1 Press MENU button and ON-SCREEN MENU will appear. Press POINT LEFT/RIGHT button(s) to move a red-frame pointer to SETTING icon.

2 Press POINT DOWN button to move a red-frame pointer to the item that you want to set and then press SELECT button. Setting dialog box appears.

SETTING MENU



When pressing SELECT button at Language, Language Menu appears.



Move a pointer to the item and then press POINT LEFT/RIGHT button(s).

Language

Language used in ON-SCREEN MENU is selectable from among English, German, French, Italian, Spanish, Portuguese, Dutch, Swedish, Russian, Chinese, Korean and Japanese.

Keystone

When the image is distorted, select Keystone. ON-SCREEN MENU disappears and Keystone dialog box is displayed.

Store ··· Store the keystone adjustment data when disconnect AC Power Cord from an AC outlet.

Reset ··· Reset the keystone adjustment data when disconnect AC Power Cord from an AC outlet.

Correct keystone distortion by pressing POINT UP/DOWN/LEFT/RIGHT button(s). Refer to KEYSTONE ADJUSTMENT on page 20.

Blue back

When this function is “On,” this projector will produce a blue image instead of the video noise on the screen when any input source is unplugged or turned off.

Display

This function decides whether to display On-Screen Displays.

On ··· shows all the On-Screen Displays.

Off ···· sets On-Screen Displays disappeared except;

- ON-SCREEN MENU
- “Power off?” message

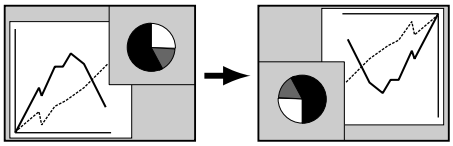
Logo

When this function is “On,” projector displays our logo when starting up.

Ceiling

When this function is “On,” picture is top / bottom and left / right reversed. This function is used to project the image from a ceiling mounting the projector.

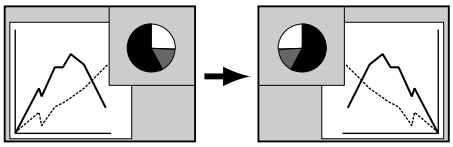
Ceiling function



Rear

When this function is “On,” picture is left / right reversed. This function is used to project the image to a rear projection screen.

Rear function

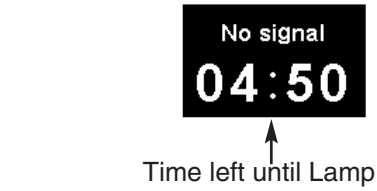


Power management

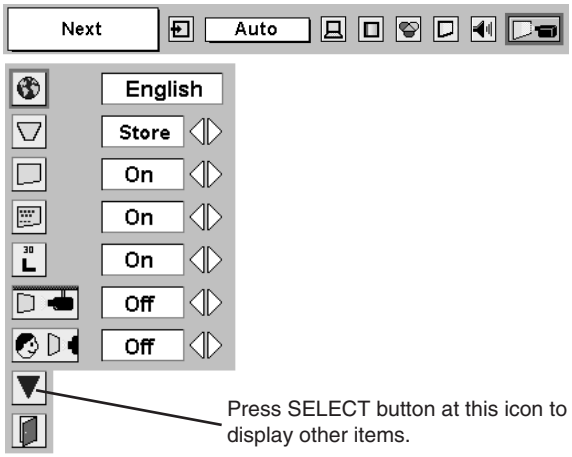
This function turns Projection Lamp off when this projector detects signal interruption and is not used for a certain period in order to reduce power consumption and maintain the Lamp-life. (This projector is shipped with this function ON.)

Power Management function operates to turn Projection Lamp off when the input signal is interrupted and any button is not pressed over 5 minutes. This function operates as follows;

1. When any input signal is interrupted, “No signal” and the counting down display appears (for 5 minutes).
2. After counting down for 5 minutes, Projection Lamp and READY Indicator are turned off. (Cooling Fans keep running.)
3. READY Indicator starts to flash after cooling down Projection Lamp about for 90 seconds (Power Management mode).
 In this Power Management mode, Projection Lamp is automatically turned on when the input signal is connected or projector is operated with any button on Top Control or on Remote Control Unit again.



Time left until Lamp off.



On start

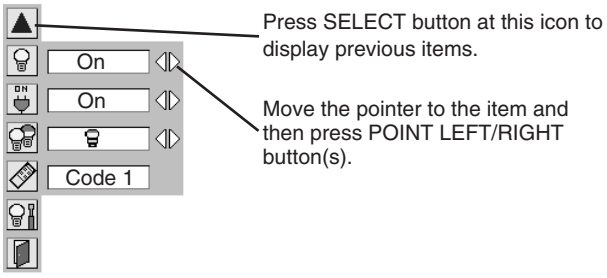
When this function is “On,” projector is automatically turned on just by connecting AC Power cord to a wall outlet.

Note ; Be sure to turn projector off properly (refer to the section “TURNING OFF PROJECTOR” on P19). If projector is turned off in the wrong steps, On Start function does not operate properly.



Lamp mode

When selecting the " " (Eco), the projector reduce the brightness and set into the low power consumption mode.



Remote control

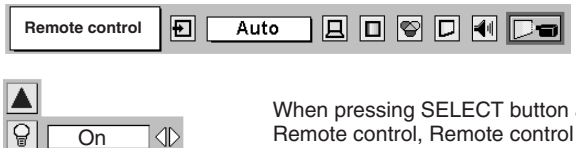
This projector has eight different remote control codes; the factory-set normal code (Code 1) and the other seven codes (Code 2 to Code 8). This switching function prevents remote control operation mixture (jam) when operating several projectors or video equipment together.
For example operating projector in “Code 7,” both projector and Remote Control Unit must be switched to “Code 7.”

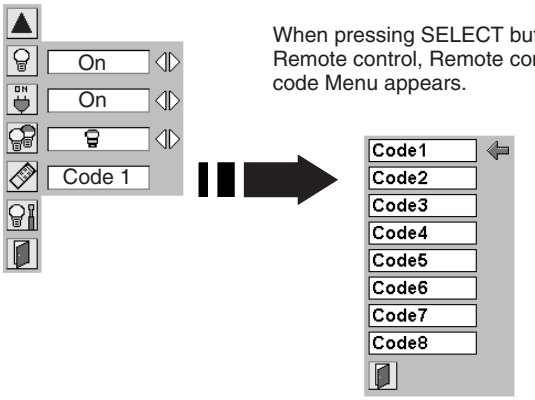
To change the code of Projector;

To change the Remote control code of the projector used in ON-SCREEN MENU is selectable from Code 1 to Code 8.

To change the code of the Remote Control Unit;

To change the remote control code of the Remote Control Unit, set the DIP switches 1-3 inside the battery compartment box of the Remote Control Unit. (Refer to P14.)





Lamp counter reset

This function is used to reset Lamp Replace Counter. When replacing Projection Lamp, reset Lamp Replace Counter by using this function. Refer to page 38 for operation.

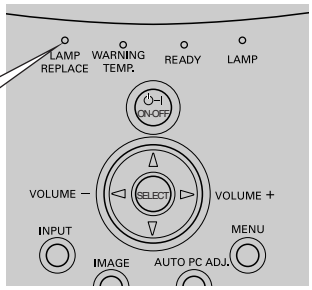
LAMP REPLACEMENT

LAMP REPLACE

When the life of the Projection Lamp of this projector draws to an end, the LAMP REPLACE indicator lights yellow. If this indicator lights yellow, replace the projection lamp with a new one promptly.

This indicator lights yellow when the life of the projection lamp draws to an end. Replace the Projection Lamp with a new one promptly.

TOP CONTROL



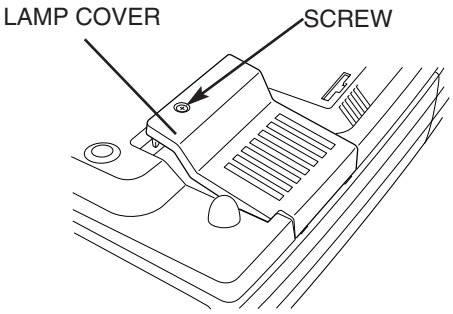
Allow a projector to cool, for at least 45 minutes before you open Lamp Cover. The inside of a projector can become very hot.

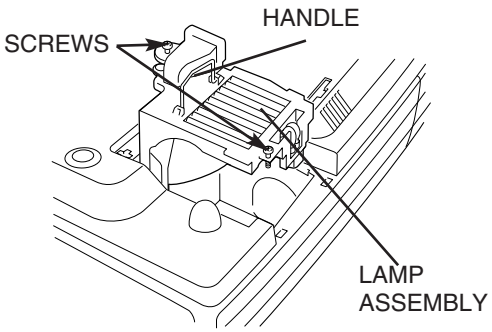
⚠ CAUTION

For continued safety, replace with a lamp assembly of the same type.
Do not drop a lamp assembly or touch a glass bulb! The glass can shatter and may cause injury.

Follow these steps to replace the lamp assembly.

1. Turn off the projector and disconnect the AC plug. Allow the projector to cool for at least 45 minutes.
2. To remove Lamp Cover, remove the screw with a screwdriver.
3. Loosen 2 screws with a screwdriver and pull out Lamp Assembly by grasping Handle.
4. Replace Lamp Assembly with a new one and tighten 2 screws back into position. Make sure that Lamp Assembly is set properly. Replace Lamp Cover and tighten the screw.
5. Connect AC Power Cord to the projector and turn on the projector.
6. **Reset the Lamp Replace Counter.**
 Refer to “LAMP REPLACE COUNTER” on the next page .





ORDER REPLACEMENT LAMP

Replacement Lamp can be ordered through your dealer. When ordering a Projection Lamp, give the following information to the dealer.

- **Model No. of your projector : PLC-XT10A/PLC-XT15A**
- **Replacement Lamp Type No. : POA-LMP59**
 (Service Parts No. 610 305 5602)

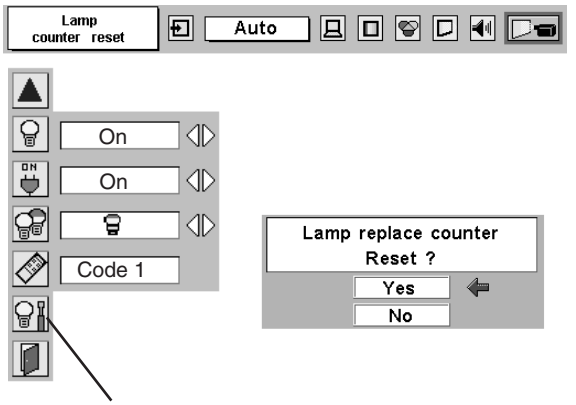
LAMP REPLACE COUNTER

Be sure to reset the Lamp Replace Counter after the Lamp Assembly is replaced. When the Lamp Replace Counter is reset, the LAMP REPLACE Indicator stops lighting.

1 Turn projector on, press MENU button and ON-SCREEN MENU will appear. Press POINT LEFT/RIGHT button(s) to move a red frame pointer to SETTING Menu icon (refer to page 36, 37).

2 Press POINT DOWN button to move a red frame pointer to "Lamp counter reset" and then press SELECT button. The message "Lamp replace counter reset?" is displayed. Move the pointer to [Yes] and then press SELECT button.

3 Another confirmation dialog box appears and select [Yes] to reset Lamp Replace Counter.



Move the pointer to Lamp counter reset and then press SELECT button. The message "Lamp replace counter reset?" is displayed.

NOTE : Do not reset the Lamp Replace Counter until after the Projection Lamp is replaced.

LAMP HANDLING PRECAUTIONS

This projector uses a high-pressure lamp which must be handled carefully and properly. Improper handling may result in accidents, injury, or create a fire hazard.

- Lamp lifetime may differ from lamp to lamp and according to the environment of use. There is no guarantee of the same lifetime for each lamp. Some lamps may fail or terminate their lifetime in a shorter period of time than other similar lamps.
- If the projector indicates that the lamp should be replaced, i.e., if the LAMP REPLACE INDICATOR lights up, replace the lamp with a new one IMMEDIATELY after the projector has cooled down. (Follow carefully the instructions in the LAMP REPLACEMENT section of this manual.) Continuous use of the lamp with the LAMP REPLACE INDICATOR lighted may increase the risk of lamp explosion.
- A Lamp may explode as a result of vibration, shock or degradation as a result of hours of use as its lifetime draws to an end. Risk of explosion may differ according to the environment or conditions in which the projector and lamp are being used.

IF A LAMP EXPLODES, THE FOLLOWING SAFETY PRECAUTIONS SHOULD BE TAKEN.

If a lamp explodes, disconnect the projector's AC plug from the AC outlet immediately. Contact an authorized service station for a checkup of the unit and replacement of the lamp. Additionally, check carefully to ensure that there are no broken shards or pieces of glass around the projector or coming out from the cooling air circulation holes. Any broken shards found should be cleaned up carefully. No one should check the inside of the projector except those who are authorized trained technicians and who are familiar with projector service. Inappropriate attempts to service the unit by anyone, especially those who are not appropriately trained to do so, may result in an accident or injury caused by pieces of broken glass.

OPERATING WIRELESS MOUSE

Wireless Remote Control Unit is not only able to operate this projector but also usable as a wireless mouse for most Personal Computers. POINT button, drag ON/OFF button and two CLICK buttons are used for wireless mouse operation. This Wireless Mouse function is available only when PC mouse pointer is displayed on a projected screen. When ON-SCREEN MENU or any message / dialog box is displayed on the screen instead of PC mouse pointer, this Wireless Mouse function cannot be used.

INSTALLATION

To use Wireless Remote Control Unit as Wireless Mouse for a Personal Computer, installation of the mouse driver (not supplied) is required. Make sure that the mouse driver is properly installed in your computer. And make sure that the mouse port (or USB port) of a Personal Computer is activated.

1 Connect the mouse port (or USB port) of your computer to Control Port (or USB connector) of this projector with Control Cable (or USB cable). (Refer to page 11, 12 for connection.)

2 Turn the projector on first, and then turn on your computer. When the computer is switched on first, Wireless Mouse may not work properly.

Note : When your computer has no mouse port, connect Serial Port of your computer to Control Port of the projector with Control Cable for Serial Port (supplied).

OPERATING WIRELESS MOUSE

When controlling a PC mouse pointer, operate Wireless Mouse with POINT button, Drag ON/OFF button, LEFT CLICK button and RIGHT CLICK button on Wireless Remote Control Unit.

POINT button

Used to move PC mouse pointer. The pointer is moved corresponding with the direction you are pressing.

LEFT CLICK button

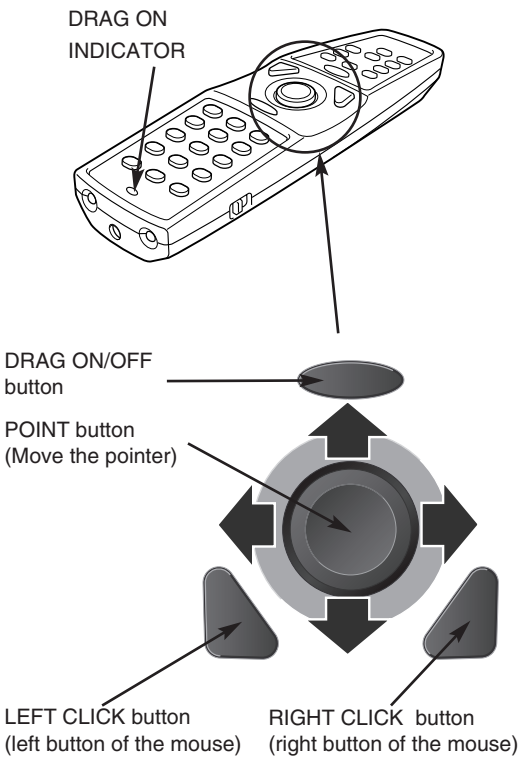
This button has the same function as the left button in a PC mouse. Press this button and the POINT button to drag a selected screen object.

RIGHT CLICK button

This button has the same function as the right button in a PC mouse.

DRAG ON/OFF button

Use this button and the POINT button to drag a selected screen object. Press and release the Drag ON/OFF button, DRAG ON INDICATOR lights green and the remote control is in Drag mode. Use the POINT button in the direction that you want to drag the screen object. Press and release the Drag ON/OFF button again or press any other button, to drop the object at the new screen location.



MAINTENANCE

WARNING TEMP. INDICATOR

WARNING TEMP. Indicator flashes red and projector is automatically turned off when an internal temperature of the projector exceeds normal temperature. Wait at least 5 minutes before turning on projector again.
When WARNING TEMP. Indicator continues to flash, check the items listed below.

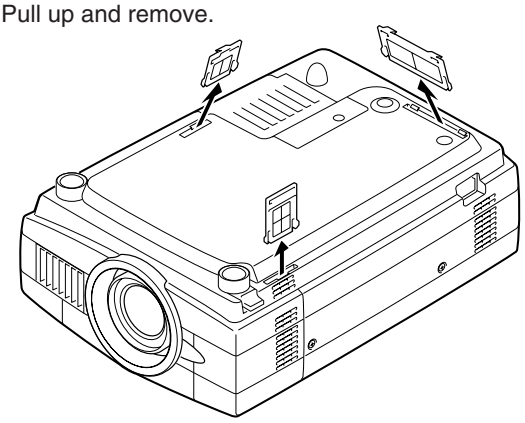
1. Ventilation Slots of the projector may be blocked. In such an event, reposition the projector so that Ventilation Slots are not obstructed.
2. Air Filter may be clogged with dust particles. Clean Air Filter by following the section AIR FILTER CARE AND CLEANING below.
3. If WARNING TEMP. Indicator remains on after performing the above checks, Cooling Fans or the Internal Circuits may be malfunctioning. Contact service personnel from an authorized dealer or a service station.

AIR FILTER CARE AND CLEANING

Removable Air Filters prevents dust from accumulating on the surface of Projection Lens and Projection Mirror. Should Air Filters become clogged with dust particles, it will reduce Cooling Fans' effectiveness and may result in internal heat build up and adversely affect the life of the projector. Clean Air Filters following the steps below:

1. Turn off the projector, and disconnect AC power cord from the AC outlet.
2. Turn the projector upside down and remove three Air Filters by pulling the latches upward.
3. Clean Air Filters with a brush or wash out dust and particles.
4. Replace three Air Filters properly. Make sure that Air Filters are fully inserted.

AIR FILTER
Pull up and remove.



CAUTION
Do not operate the projector with Air Filter removed. Dust may accumulate on LCD Panel and Projection Mirror degrading picture quality.
Do not put small parts into Air Intake Vents. It may result in malfunction of the projector.

RECOMMENDATION

We recommend avoiding dusty/smoky environments when operating a projector. Usage in these environments may cause poor image quality.

When using under dusty or smoky conditions, dust may accumulate on a lens, liquid crystal panels, or optical elements inside the projector. This condition may degrade the quality of a projected image.
When the above symptoms are noticed, contact your authorized dealer or service station for proper cleaning.

CLEANING PROJECTION LENS

Follow these steps to clean Projection Lens:

1. Apply a non-abrasive camera lens cleaner to a soft, dry cleaning cloth. Avoid using an excessive amount of cleaner. Abrasive cleaners, solvents or other harsh chemicals might scratch a surface.
2. Lightly wipe a cleaning cloth over Projection Lens.
3. When the projector is not in use, replace Lens Cover.

TROUBLESHOOTING

Before calling your dealer or service center for assistance, check the matters below once again.

1. Make sure you have connected a projector to your computer or video equipment as described in the section "CONNECTING PROJECTOR" on pages 11 ~ 13.
2. Check cable connection. Verify that all computer, video and power cord are properly connected.
3. Verify that all power is switched on.
4. If a projector still does not produce an image, re-start your computer.
5. If an image still does not appear, unplug a projector from your computer and check your computer monitor's display. The problem may be with your graphics controller rather than with a projector. (When you reconnect a projector, be sure to turn the computer and monitor off before you power up the projector. Power the equipment back on in order of : Projector and computer.)
6. If the problem still exists, check the following chart.

Problem:	Try these Solutions
No power.	● Plug a projector into your AC outlet. ● Make sure READY Indicator lights. ● Wait 90 seconds after a projector is turned OFF when turning the projector back on. NOTE : After pressing Power ON-OFF button to OFF, make sure a projector works as follows: 1. LAMP indicator lights bright and READY indicator turns off. 2. After 90 seconds, READY indicator lights green again and a projector may be turned on by pressing Power ON-OFF button. ● Check WARNING TEMP. and READY indicator. If both WARNING TEMP. and READY indicator flashes, the projector cannot be turned on. (See "TURNING ON/OFF PROJECTOR" section on page 19.) ● Check Projection Lamp. (Refer to page 38.)
Image is out of focus.	● Adjust focus of a projector. ● Make sure a projection screen is at least 4.1' (1.2m) from the projector. ● Check Projection Lens to see if it needs cleaning. NOTE : Moving a projector from a cool temperature location to a warm temperature location may result in moisture condensation on Projection Lens. In such an event, leave a projector OFF and wait until condensation disappears.
Picture is Left/Right reversed.	● Check Ceiling / Rear feature. (See "SETTING" section on page 36.)
Picture is Top/Bottom reversed.	● Check Ceiling feature. (See "SETTING" section on page 36.)
Some displays are not seen during the Operation.	● Check Display feature.(See "SETTING" section on page 36.)
No image.	● Check the connection between your computer or video equipment and a projector. ● When turning a projector on, it takes about 30 seconds to display an image. ● Check the system that you select is corresponding with your computer or video equipment. ● Make sure the temperature is not out of the Operating Temperature (5°C ~ 35°C).
No sound.	● Check audio cable connection from audio input source. ● Adjust the audio source. ● Press VOLUME (+) button. ● Press MUTE button.

Problem:	Try these Solution
Remote Control Unit does not work.	● Check the batteries. ● Check ALL-OFF switch on Remote Control Unit is set to “ON.”. ● Make sure nothing is between Infrared Remote Receiver and Remote Control Unit. ● Make sure you are not too far from a projector when using Remote Control Unit. Maximum operating range is 16.4’ (5m). ● Make sure the code of Remote Control Unit is set to conform to projector. (See “SETTING” section on page 36, 37.)
Wireless Mouse function does not work.	● Check cable connection between a projector and your computer. ● Check the mouse setting on your computer. ● Turn a projector on before turning on a computer.

WARNING :
High voltages are used to operate this projector. Do not attempt to open the cabinet.

If the problem still persists after following all operating instructions, contact the sales dealer where you purchased the projector or the service center. Give the model number and explain the difficulty. We will advise you how to obtain service.

c UL US LISTED

This symbol on the nameplate means the product is Listed by Underwriters Laboratories Inc. It is designed and manufactured to meet rigid U.L. safety standards against risk of fire, casualty and electrical hazards.

CE

The CE Mark is a Directive conformity mark of the European Community (EC).

TECHNICAL SPECIFICATIONS

Projector Type	Multi-media Projector
Dimensions (W x H x D)	11.9" x 6.4" x 16.6" (302mm x 162mm x 422mm)
Net Weight	17.2 lbs (7.8 kg)
LCD Panel System	0.99" TFT Active Matrix type, 3 panels
Panel Resolution	1024 x 768 dots
Number of Pixels	2,359,296 (1024 x 768 x 3 panels)
Color System	PAL, SECAM, NTSC, NTSC4.43, PAL-M and PAL-N
High Definition TV Signal	480i, 480p, 575i, 575p, 720p, 1035i, and 1080i
Scanning Frequency	H-sync. 15 ~ 100 KHz, V-sync. 50 ~ 100 Hz
Projection Image size (Diagonal)	Adjustable from 30" to 300"
Horizontal Resolution	800 TV lines
Projection Lens	F 1.7 ~ 2.1 lens with f 34 mm ~ 44 mm with motor zoom and focus
Throw Distance	4.1' ~ 32.8' (1.2 m ~ 10.0 m)
Projection Lamp	250 W
Computer 1 Input Terminal	(VGA) HDB 15-pin Terminal x 1
Computer 2 Input Terminal	DVI-I Terminal (Digital/Analog)
Computer Audio Input Jacks	Mini Jack (stereo) x 2 (Computer 1 and Computer 2)
Video Input Jacks	RCA Type x 1 (Video), RCA Type x 3 (Y, Pb/Cb, Pr/Cr), Mini DIN 4 pin x 1 (S-Video) and RCA x 2 (Audio R and L)
Monitor Out Terminal	(VGA) HDB 15-pin Terminal x 1
Audio Output Jack	Mini Jack (stereo) x 1
Control Port Connector	Mini DIN 8 pin x 1
USB Connector	USB Series B receptacle x 1
Built-in Speakers	INT. SP. Stereo (R and L), 2 watt RMS (T.H.D. 10%)
Feet Adjustment	0˚ to 10˚
Voltage and Power Consumption	AC 100 ~ 120 V (4.6 A Max. Ampere), 50 / 60 Hz (The U.S.A and Canada) AC 200 ~ 240 V (2.3 A Max. Ampere), 50 / 60 Hz (Continental Europe and The U.K.)
Operating Temperature	41 ˚F ~ 95 ˚F (5 ˚C ~ 35 ˚C)
Storage Temperature	14 ˚F ~ 140 ˚F (-10 ˚C ~ 60 ˚C)
Remote Control Unit	Power Source : AA, UM3 or R06 Type x 2 Operating Range : 16.4' (5m) / ±30˚ Dimensions : 2.0" x 1.4" x 7.6" (50mm x 36mm x 193mm) Net Weight : 0.35 lbs (160 g) (including batteries) Laser Pointer : Class II Laser (Max. Output : 1mW / Wave length : 650±20nm)
Accessories	Owner's Manual AC Power Cord Remote Control Unit and Batteries VGA Cable USB Cable Control Cable for Serial port DVI/VGA Adapter Protective Dust Cover Lens Cover

● The specifications are subject to change without notice.

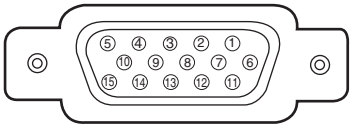
● LCD panels are manufactured to the highest possible standards. Even though 99.99% of the pixels are effective, a tiny fraction of the pixels (0.01% or less) may be ineffective by the characteristics of the LCD panels.

CONFIGURATIONS OF TERMINALS

COMPUTER INPUT-1 and MONITOR OUT TERMINALS (ANALOG)

Terminal : HDB15-PIN

Pin Configuration

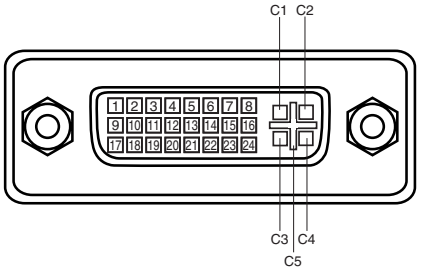


1	Red Input	**9**	+5V Power
2	Green Input	**10**	Ground (Vert.sync.)
3	Blue Input	**11**	Sense 0
4	Sense 2	**12**	DDC Data
5	Ground (Horiz.sync.)	**13**	Horiz. sync.
6	Ground (Red)	**14**	Vert. sync.
7	Ground (Green)	**15**	DDC Clock
8	Ground (Blue)		

COMPUTER INPUT-2 TERMINAL (DIGITAL/ANALOG)

Terminal : DVI-I 29-PIN

Pin Configuration



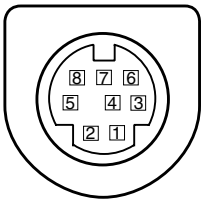
C1	Analog Red Input
C2	Analog Green Input
C3	Analog Blue Input
C4	Analog Horiz. sync
C5	Analog Ground (R/G/B)

1	T.M.D.S. Data2–	**9**	T.M.D.S. Data1–	**17**	T.M.D.S. Data0–
2	T.M.D.S. Data2+	**10**	T.M.D.S. Data1+	**18**	T.M.D.S. Data0+
3	T.M.D.S. Data2/4 Shield	**11**	T.M.D.S. Data1/3 Shield	**19**	T.M.D.S. Data0/5 Shield
4	+3.3V MCI	**12**	+5V MCI	**20**	Viewer RXD
5	W-LAN	**13**	Card In	**21**	Viewer TXD
6	DDC Clock	**14**	+5V Power	**22**	T.M.D.S. Clock Shield
7	DDC Data	**15**	Ground (for +5V)	**23**	T.M.D.S. Clock+
8	Analog Vert. sync	**16**	Hot Plug Detect	**24**	T.M.D.S. Clock–

CONTROL PORT CONNECTOR

Terminal : Mini DIN 8-PIN

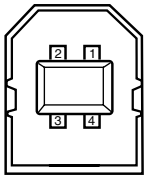
Pin Configuration



	PS/2	Serial	ADB
1	-----	R X D	-----
2	CLK	-----	ADB
3	DATA	-----	-----
4	GND	GND	GND
5	-----	RTS / CTS	-----
6	-----	T X D	-----
7	GND	GND	-----
8	-----	GND	GND

USB CONNECTOR (Series B)

Pin Configuration



1	Vcc
2	- Data
3	+ Data
4	Ground

OPTIONAL PARTS

The parts listed below are optionally supplied. When ordering those parts, give the name and Type No. to the sales dealer.

- **Control Cable (PS2 Port)** — **Type No. : POA-MCPS2**
- **Control Cable (ADB Port)** — **Type No. : POA-MCMAC**
- **MAC Adapter** — **Type No. : POA-MACAP**
- **HDB 15 pin-SCART 21 pin Cable** — **Type No. : POA-CA-SCART**
- **Media Card Imager Kit** — **Type No. : POA-MD07MCI**
- **Wireless Imager Kit** — **Type No. :** Available models are different in each country. Contact the sales dealer for details.

 When using Wireless Imager, set the following model name to PJ Controller.

 Model Name : 10-2-1
- **PJ-Net Organizer** — **Type No. : POA-PN10**

Printed in Japan
Part No. 610 305 8269 (1AA6P1P3934-- MC3AB)



SANYO Electric Co., Ltd